F: 530 241 7659

July 23, 2009

Mr. Henry Chui
California Environmental Protection Agency
Department of Toxic Substances Control
700 Heinz Avenue, Suite 200
Berkeley, CA 94710-2737

Subject:

Cleanup Plan for a Polychlorinated Biphenyl Site at the Mezzanine Level of

Building 84 in Investigation Area D1.3, Eastern Early Transfer Parcel, Lennar

Mare Island, Vallejo, California.

Dear Mr. Chui:

Remedy Engineering, Inc. prepared this letter for Lennar Mare Island, LLC (LMI) in compliance with the requirements in the Consent Agreement (LMI et al., 2001) signed April 16, 2001 between LMI, the City of Vallejo, and the State of California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) and according to the Final Polychlorinated Biphenyl (PCB) Work Plan (CH2M HILL, 2003b).

Background

Based on review of historical records, building closure reports, databases of electrical equipment, and on visual site surveys, the Navy identified sites where PCB-containing equipment was located, where PCB spills were documented, or where PCB contamination was suspected because of building history or visible stains (TtEMI, 1998).

One PCB site on the ground floor of Building 84 is listed in the Consent Agreement (LMI et al., 2001). This site is identified as Building 84 Assessment Location (AL) #01. Building 84 is located in the residential land use area within Investigation Area (IA) D1.3 (LMI, 2000). Figure 1 shows the location of Building 84 at Mare Island. This building is located west of Flagship Drive (formerly Suisun Avenue) and south of Sargo Avenue (formerly Mesa Road).

Building 84 was built in three phases between 1890 and 1909. From 1890 to 1954, the building was used as the marine prison. From 1954 to 1977, the building was used as the Navy publication and printing office. In the 1980s to the early 1990s, Building 84 was used for storage. Building 84 is located within a planned residential use area.

Sampling efforts at PCB Site Building 84 AL#01 began in 1995 as part of the Navy's PCB interim assessment program. Navy personnel from Supervisor of Shipbuilding, Conversion and Repair, Portsmouth, Virginia, Environmental Detachment (SSPORTS) conducted interim PCB assessments and performed cleanup actions (i.e., washing, scabbling) in

accordance with Technical Work Documents (TWDs), where necessary. Following the SSPORTS interim PCB assessments and any necessary and related cleanup actions, Tetra Tech Environmental Management, Inc. (TtEMI) personnel collected confirmation samples either to confirm SSPORTS findings that no cleanup was necessary or to determine the effectiveness of the SSPORTS cleanup actions.

Since the end of the interim assessment program, a number of investigative and remedial activities have been conducted to address PCB contamination within and under PCB Site Building 84 AL#01. These activities are detailed below. Although PCBs in building materials (e.g., bulk floor material and light ballasts), floor surfaces, and soil under the original ground floor have been successfully remediated to concentrations below risk-based levels (i.e., less than the United States Environmental Protection Agency (USEPA), Region 9 residential Regional Screening Level (RSL) for high-risk PCBs of 0.22 milligram per kilogram [mg/kg]), indoor air concentrations of PCBs remain above both residential and commercial/industrial risk-based levels (USEPA 2009).

During one of the remedial action phases completed by CH2M HILL for Building 84 AL#01, an additional PCB Site was identified in the building; PCB Site Building 84-Mezzanine is a raised mezzanine measuring approximately 36 feet (ft) by 60 ft and is located in the northeast corner of Building 84. Sampling efforts were subsequently undertaken in 2007 and additionally in early 2009 at the Building 84-Mezzanine site in order to assess whether PCBs in the floor of the Building 84-Mezzanine area might be affecting the PCB concentrations in indoor air. Sample results to date (discussed in detail below) have indicated PCB concentrations in concrete chip samples are greater than the residential RSL of 0.22 mg/kg.

The Final Polychlorinated Biphenyl Work Plan (CH2M HILL, 2003a) describes the process for PCB site closure under the comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Toxic Substance Control Act (TSCA) regulations. Under CERCLA, no further action (NFA) is appropriate at a PCB site if there is no potential source, and no PCB contamination present at the site (CH2M HILL, 2003a). Even if there is a potential source or PCB contamination present in machinery or building materials, NFA under CERCLA is appropriate at a site if there is no release to soil or groundwater, nor any visible pathway for migration of PCB's to soil and/or groundwater (CH2M HILL, 2003a). If there is a known release to soil or groundwater, then NFA is appropriate if the detected PCB concentrations in soil, groundwater, and indoor air do not exceed the applicable RSLs, or results of a site specific risk evaluation demonstrate that potential risks associated with exposure to residual PCBs are within the risk level generally used to determine if cleanup is necessary.

The following sections provide details on the site history, previous sampling and cleanup actions, location and extent of PCB contamination, and the proposed cleanup action for the Building 84-Mezzanine area.

Nature of Contamination

The source of PCB contamination inside Building 84 is unknown. There are no recorded oil spills or transformers associated with the interior of this building. Sampling of the main building floor (concrete and asphalt media) was initiated because stains were evident during a Navy facility closure site inspection in 1995.

Historically, the maximum PCB concentrations detected in floor samples inside Building 84 (main floor) were 23.5 mg/kg in concrete samples and 11.3 micrograms per 100 square centimeters (µg/100 cm²) in wipe samples. During five remedial action phases from January 2004 to April 2007, all of the concrete and pavement sections of the building floor were removed. In addition, the soil beneath the pavement was also removed, varying from one to five feet below ground surface (ft-bgs).

In 2009, 20 concrete chip samples (plus two duplicates) were collected from the concrete floor of the Building 84-Mezzanine. PCB concentrations in these samples ranged from 5.8 to 22 mg/kg as Aroclor 1242 and from non-detect to 0.48 mg/kg as Aroclor 1260. Based on these analytical results, PCB contamination above allowable levels remains in the concrete floor of the Building 84-Mezzanine.

On four occasions from May 2004 to June 2007, air sampling was performed in Building 84, and each time the results have been consistently above the allowable levels (3.4 nanograms per cubic meter of air [ng/m³]) with a maximum concentration of 140 ng/m³. Each air sampling event was performed following a remedial action at Building 84 AL#01 to determine if the source of the indoor air contamination had been eliminated.

Summary of Previous Sampling

Table A-1 (included in Attachment A) provides a summary of the available sampling data collected from the ground floor/underlying soil at Building 84 AL#01 between 1995 and mid-2002. This table includes the sample numbers, matrix, sample date, and total PCB concentrations (laboratory reporting limit when PCBs were not detected). All samples were analyzed for PCBs using USEPA Methods SW8080, SW8081, or SW8082. Figure A-1 (included in Attachment A) shows the sample locations and cleanup action areas at Building 84 AL#01 between 1995 and mid-2002.

As part of the interim assessment, SSPORTS personnel collected 42 stain-specific solid and wipe samples from the ground floor of Building 84 in February 1995 (SSPORTS, 1997a). PCBs were not detected in 33 of these samples at laboratory reporting limits of 10 µg/100 cm² for wipe samples and 2 mg/kg for solid samples. The other nine samples had PCB concentrations ranging from 0.113 mg/kg to 23.5 mg/kg in asphalt/concrete media and 11.3 µg/100 cm² in a wipe sample (Table A-1).

SSPORTS issued TWD 95-0070 (SSPORTS, 1995) to wash a 31-inch by 33-inch stained area of the asphalt floor where the initial assessment sample result was 11.3 µg/100 cm². SSPORTS personnel collected two asphalt verification samples from this area on

January 7, 1997 following this cleanup action. These two samples had PCB concentrations of 5.7 mg/kg and 8.4 mg/kg (Table A-1).

SSPORTS issued TWD 97-1472 (SSPORTS, 1997b) to scabble six areas of the Building 84 ground floor where the PCB concentrations detected in the interim assessment samples exceeded the screening levels of 1 mg/kg and 10 μ g/100 cm². The interim assessment results for these six areas were: 1.11 mg/kg, 1.17 mg/kg, 1.37 mg/kg, 3.77 mg/kg, 11.3 μ g/100 cm², and 23.5 mg/kg (SSPORTS, 1997a). The work specified in this TWD was never performed. Instead, SSPORTS issued TWD 97-1472 Revision A (SSPORTS, 1998a), which was amended to specify for cleanup actions in only the two areas that had PCB concentrations exceeding 10 mg/kg and 10 μ g/100 cm². Therefore, four sample locations inside Building 84 with PCB concentrations greater than 1 mg/kg (1.11 mg/kg to 3.77 mg/kg) were not abated by the Navy.

TWD 97-1472 Revision A provided instruction to scabble a 10- by 10-foot section of the concrete floor to a depth of 0.25 inch where the initial assessment PCB concentration was 23.5 mg/kg and to remove a 10- by 10-foot section of the asphalt floor from the area initially abated by TWD 95-0070 (SSPORTS,1998a). The results of samples collected after these cleanup actions are unknown. However, SSPORTS issued TWD 97-1472 Revision B (SSPORTS, 1998b) to remove additional concrete and asphalt from the same two floor areas as TWD 97-1472 Revision A. Following these cleanup actions, SSPORTS personnel collected nine verification samples, but these data were not located in the Navy files. SSPORTS Yard Route Slip does state, however, that "the final laboratory analyses were all non-detect" (SSPORTS, 1999).

TtEMI personnel collected three concrete confirmation samples from the floor of Building 84 on December 10, 1998. One concrete sample was collected from the exposed surface within the western abated areas where the floor had been removed to a depth of approximately 6 inches below the original surface (TtEMI, 1998). PCBs were detected in this sample at a concentration of 0.02J mg/kg (TtEMI, 1998). The other two confirmation samples were collected from the exposed surface within the eastern abated area where the floor had been removed to approximately four and six inches below the original surface (TtEMI, 1998). PCBs were not detected in these two samples at a concentration greater than the laboratory reporting limit (Table A-1).

In accordance with the *Draft Polychlorinated Biphenyl Work Plan* (CH2M HILL, 2002), CH2M HILL collected eight soil samples on June 25, 2002 at Building 84 AL#01 to replace the missing verification data following TWD 97-1472 Revision B. PCBs were not detected in these soil samples at a concentration greater than the laboratory reporting limit of 0.037 mg/kg (Table A-1).

A letter requesting no further action was submitted to DTSC on October 22, 2003 (CH2M HILL, 2003b). DTSC concurred with the no further action determination in a letter dated November 6, 2003, provided that USEPA also concurred (DTSC, 2003). CH2M HILL submitted a notification to USEPA in October 2003 proposing remedial activities at sample locations where PCBs were detected at concentrations greater than 1 mg/kg

(CH2M HILL, 2003c). USEPA responded in November 2003 that it did not concur with the proposed remedial action and that further characterization was required (USEPA, 2003). CH2M HILL staff collected three additional samples (B84-CH100 through B84-CH102) from unstained areas of the asphalt floor at PCB Site Building 84 AL#01 in December 2003. Total PCBs were detected in these samples at concentrations from 0.13 to 0.86 mg/kg (Figure A-2 and Table A-2, included in Attachment A). A revised notification was submitted to USEPA in July 2004 that included the additional characterization data (CH2M HILL, 2004a). USEPA concurred with the proposed remedial action in August 2004 (USEPA, 2004).

In January 2004, CH2M HILL removed portions of the ground floor and underlying soil in four areas, as described in the revised notification (CH2M HILL, 2004a). After the removal actions were complete, CH2M HILL collected four verification samples (B84-0801 through B84-0804). Total PCBs were detected in three samples, at concentrations from 0.17 to 1.2 mg/kg (Table A-2 and Figures A-4 through A-6, included in Attachment A). Sample location B84-0802 was over excavated by one foot because total PCBs were detected at a concentration of 1.2 mg/kg. Another verification sample was collected after the over excavation; PCBs were detected in this sample at a concentration of 0.11 mg/kg.

In March 2004, the DTSC directed that air samples be collected inside PCB Site Building 84 AL#01 because its future use was intended to be residential (condominiums) (CH2M HILL 2004b). In May 2004, CH2M HILL collected six, 24-hour air samples (Table A-3, included in Attachment A). One sample from each of the two wings of the building, one duplicate sample, and one tent sample (collected in a 10- by 10- by 8-foot enclosed space) were collected inside PCB Site Building 84 AL#01 (Figure A-3, included in Attachment A). In addition to these four samples, two samples were collected outside the building as background samples. One field blank sample was also collected. The samples were analyzed for individual congeners using modified USEPA Method 1668A. The detected congeners were sorted and grouped by homologue, and converted from mass (nanograms) to concentration (ng/m³) according to the volume of air sampled. The results of these air samples are presented in Table A-3. PCBs were not detected in the outdoor air samples (84-AIR-105 and 84-AIR-106) or the field blank (84-AIR-107) at concentrations above the reporting limit for each respective congener (Table A-3). Total PCB concentrations in the indoor air samples ranged from 21 to 69 ng/m³. These values are higher than the USEPA Region 9 ambient air PRG of 3.4 ng/m³ (the current USEPA Region 9 residential RSL is 4.3 ng/m³). The ambient air PRG is based on a residential exposure scenario and a target cancer risk level of 1 x 10⁻⁶.

In June 2004, four wall wipe samples (B84-WP0200 through B84-WP0203) and three dust samples (B84-SS0204 through B84-SS0206) were collected to attempt to better understand the presence of PCBs in particulate matter inside PCB Site Building 84 AL#01. PCBs were not detected in the wall wipe samples (Table A-2), but were detected in the dust samples at concentrations from 0.86 to 5.8 mg/kg (Table A-2).

In May 2005, all the light ballasts were removed from Building 84 because they were considered possible sources of PCBs in air inside Building 84. In June 2005, two additional 24-hour indoor air samples were collected and analyzed for individual congeners, and the

results converted from mass to concentration as previously described. Total PCBs were detected in these two indoor air samples at concentrations of 100 and 110 ng/m³ (Table A-4, included in Attachment A) (CH2M HILL, 2007).

Because PCBs were detected in the three dust samples collected in June 2004, all horizontal surfaces in Building 84 were cleaned in August 2005 by vacuuming the surfaces and then wiping them down.

In September 2006, the asphalt, concrete, and brick floor in two large areas of PCB Site Building 84 AL#01 (referred to as Cells A and D) were removed along with approximately 1 foot of soil below the floor (Figures A-4 and A-6, included in Attachment A). The total excavation depth of the removal footprints was approximately 16 to 20 inches bgs. The two areas were subdivided for excavation confirmation sampling on 3- by 3-meter grids. Also in September 2006, 45 soil verification samples were collected from the removal area (Table A-2). Total PCBs were detected in 11 samples at concentrations from 0.070 to 3.0 mg/kg (Table A-2). Of these 11 samples, six samples contained concentrations of total PCBs greater than the residential PRG for soil, 0.22 mg/kg (Table A-2). Sample locations B84AL01-CS0825, B84AL01-CS0827, B84AL01-CS0828, B84AL01-CS0842, B84AL01-CS0843, and B84AL01-CS0846 were over excavated to depths ranging from 3.5 to 6 feet bgs (Figures A-4 and A-6).

On October 31, 2006, six verification samples were collected from the removal area. Total PCBs were detected in two of the six samples, at concentrations from 0.11 to 1.9J mg/kg (Table A-2). Because total PCBs were detected at sample location B84AL01-CS0843 at a concentration greater than 0.22 mg/kg, this sample location was over excavated to a depth of 5.0 feet bgs (Table A-2). On November 21, 2006, another verification sample was collected from former sample location B84AL01-CS0843. Total PCBs were detected in this verification sample at a concentration of 0.13 mg/kg (Table A-2 and Figure A-4, included in Attachment A).

In December 2006, after excavation activities were complete, four indoor air samples were collected from PCB Site Building 84 AL#01. Concentrations of total PCBs in these samples ranged from 91 to 140 ng/m³ (Table A-5 and Figure A-3, included in Attachment A). These detected concentrations, which were similar to those detected in the June 2005 samples, exceeded the ambient air PRG of 3.4 ng/m³. These results suggest that cleaning the horizontal surfaces inside the building and removing large portions of asphalt, concrete, and brick flooring in two locations did not reduce indoor air levels of PCBs. (CH2M HILL, 2007).

In April 2007, the asphalt, concrete, and brick floors in the remaining areas of PCB Site Building 84 AL#01 (referred to as Cells B, C, E, and F) were removed along with approximately 1 foot of soil below the floor (Figures A-4 and A-5, included in Attachment A). After these removal actions were complete, 78 verification samples were collected (Table A-2). Total PCBs were detected in one of the 78 samples (B84AL01-CS0874) at a concentration of 0.14 mg/kg. The remaining verification samples did not contain PCBs at concentrations above the reporting limit.

In June 2007, prior to collecting indoor air samples, the entryways to Building 84 were opened and the building was aired out for 24 hours. After 24 hours, the entryways and windows were sealed and the building sat for 72 hours. After the 72-hour wait, four, 24-hour indoor air samples were collected in June 2007. Total PCB concentrations in these samples ranged from 120 to 130 ng/m³ (Table A-6 and Figure A-3). These detected concentrations, which are similar to those detected in the December 2006 samples, exceeded the ambient air PRG of 3.4 ng/m³. These results demonstrate that removing the entire ground floor and underlying soil, in addition to the previous cleanup activities, did not reduce indoor air levels of PCBs.

In March 2007, CH2M HILL collected four concrete chip samples (B84MEZZCH0101-C0 through B84MEZZCH0104-C0) from a stained area on the Building 84-Mezzanine floor. Total PCB concentrations in these samples ranged from 4.0 mg/kg to 4.3 mg/kg. Locations of these samples are shown on Figure 3.

In February 2009, Remedy Engineering, Inc. collected 20 additional concrete chip samples (in addition to two duplicate samples) from the floor of the mezzanine area (Figure 3). The samples were collected on a 10 foot by 10 foot grid. The results of the Building 84-Mezzanine concrete chip sampling are provided in Table 1. As shown on the table, PCB concentrations in these samples ranged from 5.8 to 22 mg/kg as Aroclor 1242 and from non-detect to 0.48 mg/kg as Aroclor 1260. No other Aroclors were detected above laboratory detection limits. Copies of the laboratory data sheets for this sampling event are included in Attachment B.

Location and Extent of Contaminated Area

PCB concentrations in the ground floor (following removal of flooring material and underlying soil) of Building 84 are below the residential RSL of 0.22 mg/kg. However, analytical results from the concrete chip samples collected from PCB Site Building 84-Mezzanine show PCB concentrations with a maximum of 22 mg/kg. In addition, PCB concentrations in air inside Building 84 remain above ambient air PRGs with a maximum concentration of 140 ng/m³.

Cleanup Plan

The entire floor of the Building 84-Mezzanine area (approximately 36 feet by 60 feet, Figure 3) will be scarified to a depth of 0.25 inches and 9-point composite concrete chip samples will be collected on an approximate 1.5 meter grid as shown on Figure 4 to determine if remediation goals for PCBs have been met. Scarifying will continue until the verification sampling results indicate that this cleanup goal has been met or it is assessed that structural integrity of the building has been impacted. Approximately 3.4 tons of concrete will be removed from PCB Site Building 84-Mezzanine. This additional cleanup action for the Building 84-Mezzanine site will occur during September 2009.

Following the scarification of the concrete floor in the Mezzanine and collection of concrete chip verification samples, five indoor air samples for PCB congeners of concern will be

collected. The five samples will include three samples, one duplicate sample, and one blank for analysis. The indoor air sampling will be conducted in accordance with the *Draft Indoor Air Sampling and Analysis Plan for Polychlorinated Biphenyl Sites at Lennar Mare Island* (CH2M HILL, 2005). In addition, three total suspended particulates (TSP) samples, including one for quality assurance/quality control (QA/QC), will be collected.

This cleanup action will be performed in accordance with the *Final Polychlorinated Biphenyl Work Plan* (CH2M HILL, 2003a). Sample analysis will be in accordance with the Quality Assurance Project Plan (CH2M HILL, 2001) using USEPA Method SW8082. Health and safety will be in accordance with the Remedy Engineering *Health and Safety Plan for Environmental Activities at Lennar Mare Island, Vallejo, California* (Trihydro, 2009). Standard operating procedures (SOPs) for the field work and issues regarding site security, site access, permits and notifications, site restoration, and site demobilization were addressed in the *Draft Polychlorinated Biphenyl Work Plan* (CH2M HILL, 2002).

PCB waste management will be performed in accordance with Appendix B8 of the *Draft Polychlorinated Biphenyl Work Plan* (CH2M HILL, 2002). It is assumed based on the initial site characterization results that PCB-containing wastes generated from this cleanup action will be disposed of off-site at a Class II landfill.

Conclusions

The floor of the Building 84-Mezzanine contains PCB concentrations above 0.22 mg/kg. The top 0.25- inches of the entire floor will be scarified and removed. Concrete chip verification sample results will determine whether the cleanup goal of less than or equal to 0.22 mg/kg (the residential cleanup goal for high risk PCBs) has been met or it has been assessed that the structural integrity of the building has been impacted. In addition, indoor air samples will be collected and analyzed for PCB congeners of concern from the Building 84-Mezzanine Area.

Please submit your approval of this cleanup plan to me within 30 calendar days at the above address or via email at tcorontz@remedyengineering.com. If you have any questions or concerns regarding this cleanup plan for Building 84-Mezzanine, please contact me at (530) 241-7658.

References

CH2M HILL. 200	01. Q <i>uality Assurance Project Plan</i> . November.
20	02. Draft Polychlorinated Biphenyl Work Plan. August 6.
20	03a. Final Polychlorinated Biphenyl Work Plan. March 7.
Investigatio No Further	03b. "Polychlorinated Biphenyl Site Located Inside Building 84 Within in Area D1 in the Eastern Early Transfer Parcel of Mare Island, Where Action is Required under the Department of Toxic Substances Control preement." October 22.

1997a. Interim Polychlorinated Biphenyl (PCB) Assessment for Parcel 08-B7.

July 30.

. 2009. Regional Screening Level Table (RSL). April.

Mr, Henry Chui

Sincerely,

Remedy Engineering, Inc.

Tom Corontzos, P.E. Project Manager

Copy to: Distribution

Copy to (with enclosures):

Mr. Paisha Jorgensen Regional Water Quality Control Board 1515 Clay Street, Suite 1400 Oakland, CA 94612 (Electronic copy of non-PCB documents) Mr. Gordon Hart Paul, Hastings, Janofsky, Walker, LLP 55 Second Street, 24th Floor San Francisco, CA 94105-3411

Ms. Carolyn d'Almeida U.S. EPA Region 9 (SFD 8-1) 75 Hawthorne Street, 9th Floor San Francisco, CA 94105 Mr. Gil Hollingsworth Mare Island Conversion Division City of Vallejo 555 Santa Clara Street Vallejo, CA 94590-5934 (Electronic copy only)

Mr. Neal Siler Lennar Mare Island, LLC 690 Walnut Avenue, Suite 100 Vallejo, CA 94592 Ms. Myrna Hayes 816 Branciforte Street Vallejo, CA 94590

Mr. Mel Asuncion Caretaker Site Office, SF Bay 410 Palm Ave., Bldg. 1, Suite 161 San Francisco, CA 94130 (2 copies) Mr. Saul Bloom Arc Ecology 4634 – 3rd Street San Francisco, CA 94124 (Electronic copy only)

Ms. Barbara Cook
California Environmental Protection
Agency, Department of Toxic Substances
Control
700 Heinz Avenue, Suite 200
Berkeley, CA 94710-2721

Ms. Sheila Roebuck Lennar Mare Island, LLC 690 Walnut Avenue, Suite 100 Vallejo, CA 94592

Ms. Paula Bolio CH2M Hill 155 Grand Avenue, Suite 1000 Oakland, CA 94612 Mr. Henry Chui
California Environmental Protection Agency,
Department of Toxic Substances Control
700 Heinz Avenue, Suite 200
Berkeley, California 94710-2721

Copy to (without enclosures):

Ms. Carolyn Marn U.S. Fish and Wildlife Service 2800 Cottage Way, Room W-2605 Sacramento, CA 95825

Ms. Laurie Sullivan
National Oceanic and Atmospheric
Administration
75 Hawthorne Street, 9th Floor
San Francisco, CA 94105
(Electronic copy only via email)

Mr. Ron Pilkington Bay Area Air Quality Management District 939 Ellis Street San Francisco, CA 94109

Mr. Kenneth Browne 109 El Camino Real Vallejo, CA 94590

Mr. Adam A. Chavez 1031 Florida Street Vallejo, CA 94590-5513

Mr. Gerald Karr 149 Garden Court Vallejo, CA 94591

Ms. Paula Tygielski 456 East L Street Benicia, CA 94510

Mr. Terry Schmidtbauer Dept. of Resource Management County of Solano 675 Texas Street, Suite 5500 Fairfield, CA 94533 Mr. Frank Gray California Dept. of Fish & Game OSPR Headquarters P.O. Box 944209 Sacramento, CA 94244-2090

Ms. Patricia Port U.S. Department of Interior 1111 Jackson Street, Suite 520 Oakland, CA 94607

Mr. Mike Coffey 6 Oricle Court American Canyon, CA 94503

Mr. James O'Loughlin 1449 Sheridan Drive Napa, CA 94558

Mr. Steven Goldbeck San Francisco Bay Commission 50 California Street, Suite 2600 San Francisco, CA 94102

Dr. Tom Charon, M.D. Solano County Department of Public Health 275 Beck Avenue Fairfield, CA 94533

Mr. Donald Parker Vallejo Fire Department 970 Nimitz Street Vallejo, CA 94592

Mr. Justice Budu 107 Fieldstone Way Vallejo, CA 94589 **TABLES**

Table 1. Analytical Results for February 2009 Concrete Chip Sampling Project, PCB Site Building 84 Mezzanine, Lennar Mare Island, Vallejo, California

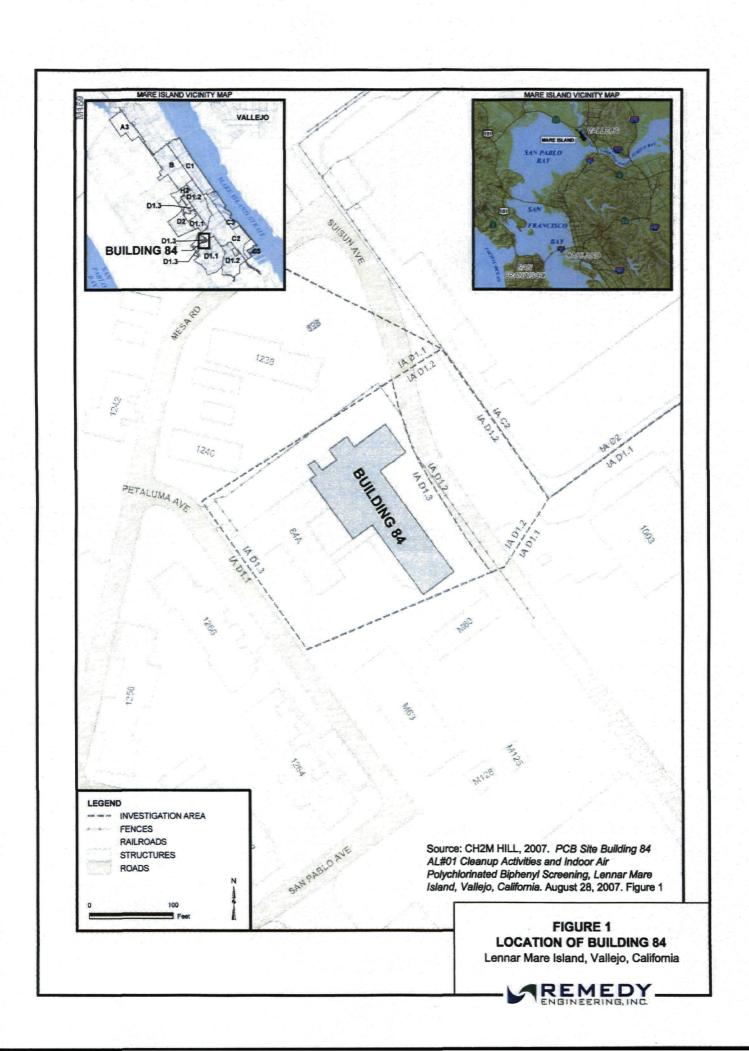
Sample	Sample	Sample	Aroclor 1242	Aroclor 1260	All Other Aroclors
Name	Date	Matrix	(mg/kg)	(mg/kg)	(mg/kg)
B84MEZZRE0101	2/5/2009	Concrete Chip	12	0.37	ND
B84MEZZRE0102	2/5/2009	Concrete Chip	16	0.4	ND
B84MEZZRE0103	2/5/2009	Concrete Chip	22	0.48	ND
B84MEZZRE0104	2/5/2009	Concrete Chip	8.2	0.42	ND
B84MEZZRE0105	2/5/2009	Concrete Chip	11	0.46	ND
B84MEZZRE0106	2/5/2009	Concrete Chip	6.6	0.2	ND
B84MEZZRE0107	2/5/2009	Concrete Chip	5.9	ND (0.17)	ND
B84MEZZRE0108	2/5/2009	Concrete Chip	9.7	0.31	ND
B84MEZZRE0108D	2/5/2009	Concrete Chip	5.8	0.19	ND
B84MEZZRE0109	2/5/2009	Concrete Chip	8	0.26	ND
B84MEZZRE0110	2/5/2009	Concrete Chip	8.3	ND (0.17)	ND
B84MEZZRE0111	2/5/2009	Concrete Chip	9.6	0.29	ND
B84MEZZRE0112	2/5/2009	Concrete Chip	8.4	0.18	ND
B84MEZZRE0113	2/5/2009	Concrete Chip	7.7	0.26	ND
B84MEZZRE0114	2/5/2009	Concrete Chip	9.2	0.2	ND
B84MEZZRE0115	2/5/2009	Concrete Chip	11	0.26	ND
B84MEZZRE0116	2/5/2009	Concrete Chip	9.3	ND (0.17)	ND
B84MEZZRE0117	2/5/2009	Concrete Chip	12	0.19	ND
B84MEZZRE0118	2/5/2009	Concrete Chip	10	0.18	ND
B84MEZZRE0119	2/5/2009	Concrete Chip	8.3	ND (0.17)	ND
B84MEZZRE0119D	2/5/2009	Concrete Chip	11	0.21	ND
B84MEZZRE0120	2/5/2009	Concrete Chip	5.8	0.2	ND

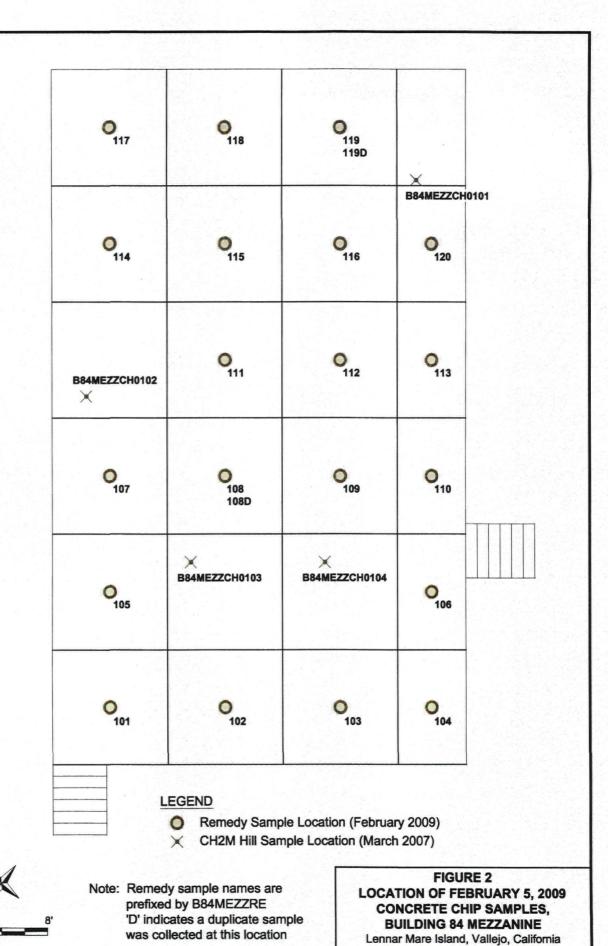
All samples analyzed for PCB Aroclors using EPA Method 8082

D - field duplicate sample

ND - Not Detected with the laboratory detection limit in parenthesis, where applicable mg/kg - milligrams per kilogram

FIGURES





REMEDY.

MI-BUILDING84SCHEMA.DWG

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	•	③ 127	•	•	128	•	
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	•	① 125	•	•	① 126	•	
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	•	•	•	•	•	•	
	•	121	•	•	① 122	•	
	•	•	•	•	•	•	

LEGEND

- Individual Sample Location to be Combined into Composite Sample
- Verification Composite Sample Name

- Composite Sampling Area



Notes: Individual sample areas measure approximately 1.5 by 1.5 meters Sample names will be prefixed by B84MEZZRE

FIGURE 3
LOCATION OF COMPOSITE
VERIFICATION SAMPLES,
BUILDING 84 MEZZANINE



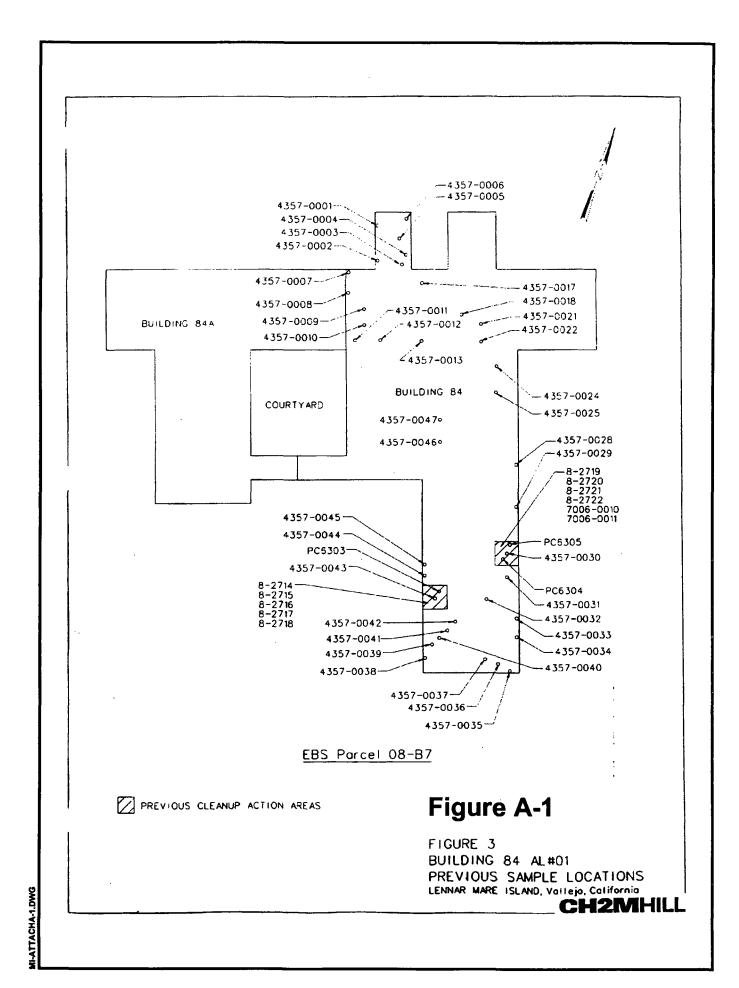
ATTACHMENT A

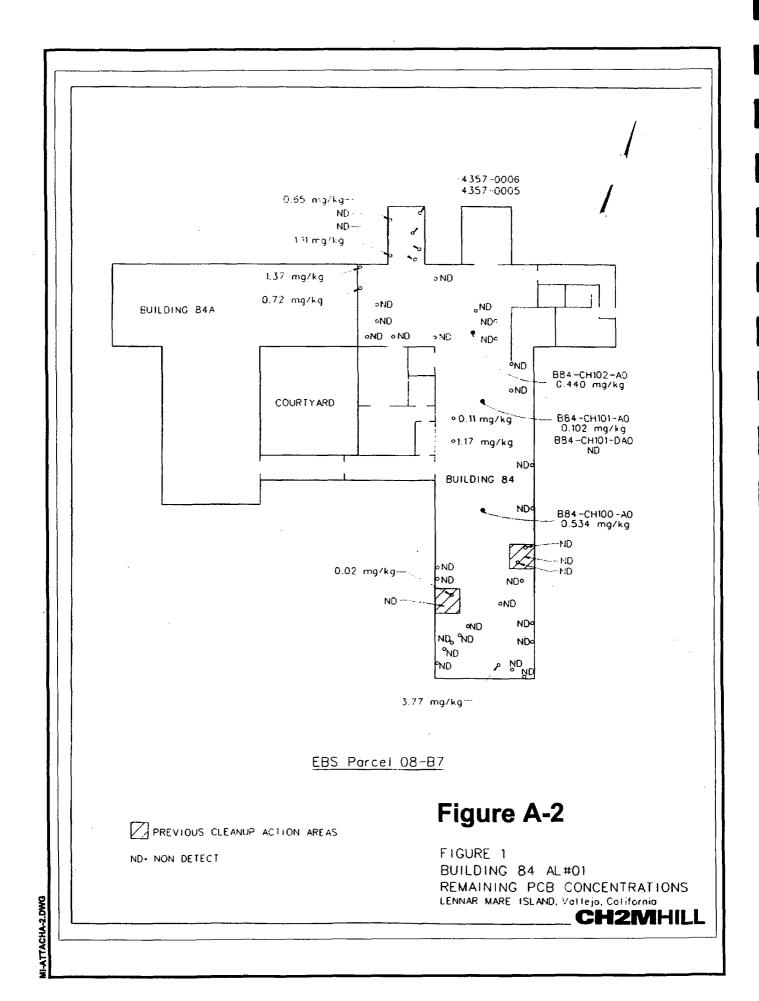
TABLES AND FIGURES FROM PREVIOUS INVESTIGATIONS

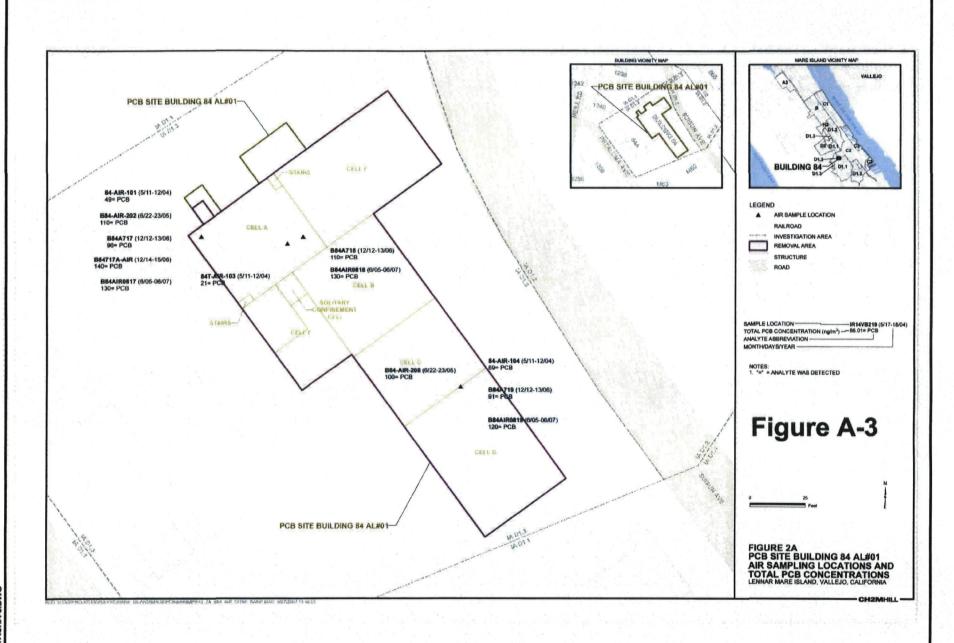
Note: Tables and Figures included in this Attachment are taken from the following reports. They are presented as originally prepared; however a revised table/figure number has been added for clarity.

CH2M HILL, 2003c. Notification Regarding Self-implementing Onsite Cleanup and Disposal of Polychlorinated Biphenyl Remediation Waste Inside Building 84 in Investigation Area D1, Eastern Early Transfer Parcel, Mare Island, Vallejo, California. October 22, 2003.

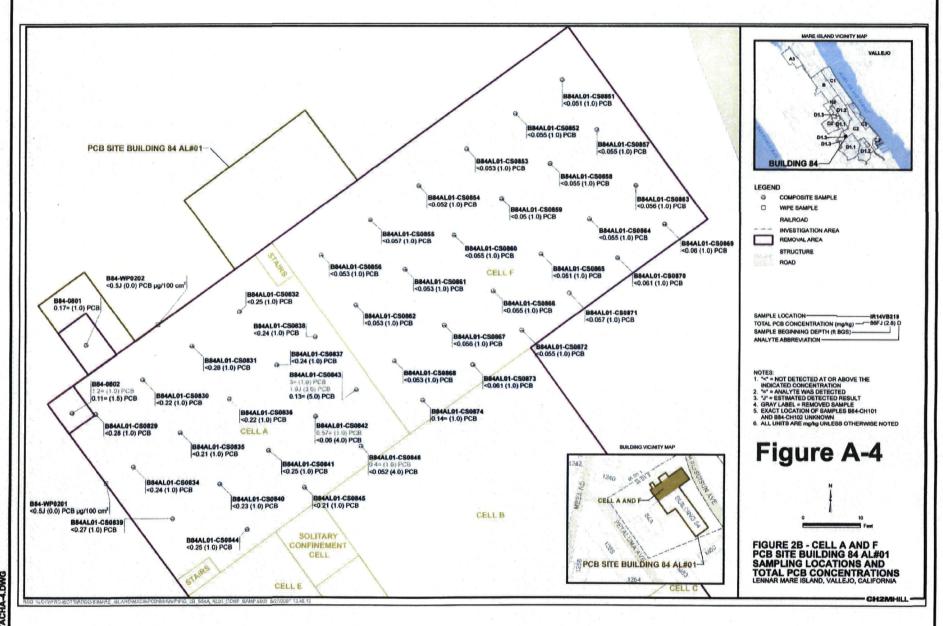
CH2M HILL, 2007. PCB Site Building 84 AL#01 Cleanup Activities and Indoor Air Polychlorinated Biphenyl Screening, Lennar Mare Island, Vallejo, California. August 28, 2007.

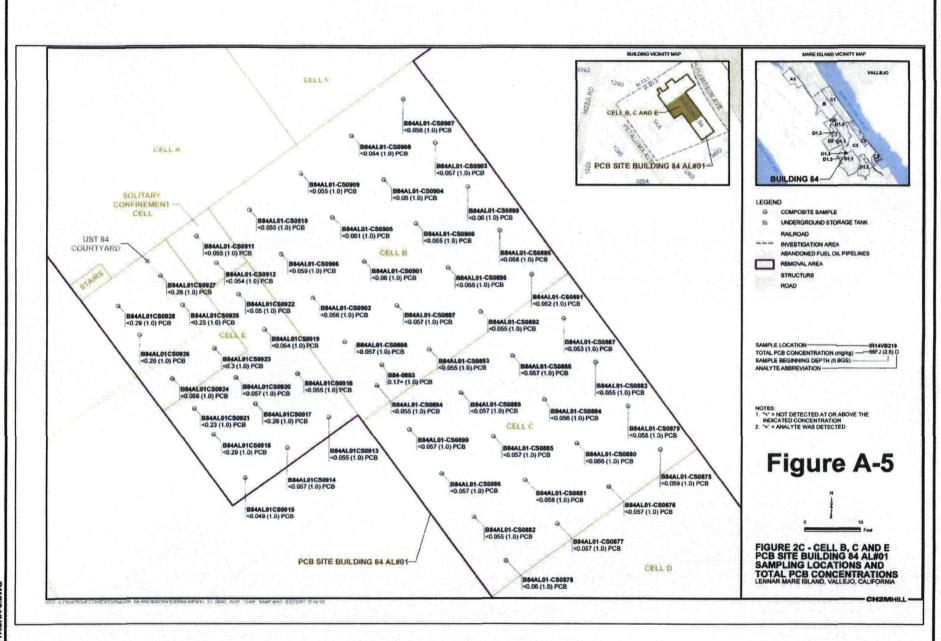


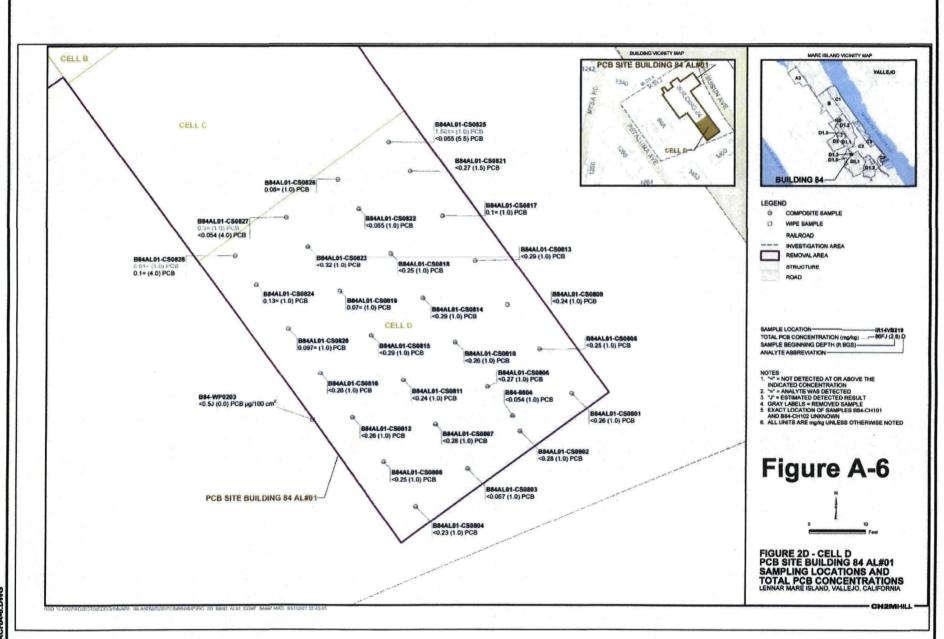




I-ATTACHA-3 DWG







ATTACHA C DAN

TABLE 1
Sample Results for Building 84 AL#01
PCB Sites, Lennar Mare Island, Vallejo, California

PCB Site Name	Site Description	Sample Number	Sample Matrix	Sample Date	PCB Concentration (mg/kg)	Comments
Building 84 AL#01	Floor of the building	4357-0001	Asphalt	2/22/95	0.653	
		4357-0002	Asphalt	2/22/95	1.11	
		4357-0007	Asphalt	2/22/95	1.37	
		4357-0008	Asphalt	2/22/95	0.716	
		4357-0030	Concrete	2/22/95	11.3 μg/100 cm²	Removed
		4357-0037	Asphalt	2/22/95	3.77	
	•	4357-0043	Concrete	2/22/95	23.5	Removed
		4357-0046	Asphalt	2/22/95	1.17	
		4357-0047	Asphalt	2/22/95	0.113	
		7006-0010	Concrete	1/7/97	8.4	Removed
		7006-0011	Concrete	1/7/97	5.7	Removed
	•	PC6303	Concrete	12/10/98	0.02 J	
		PC6304	Concrete	12/10/98	ND (< 0.036)	
		PC6305	Concrete	12/10/98	ND (< 0.036)	
		8-2714-CH2M	Soil	6/25/02	ND (< 0.04)	
		8-2715-CH2M	Soil	6/25/02	ND (< 0.04)	
		8-2716-CH2M	Soil	6/25/02	ND (< 0.04)	
		8-2717-CH2M	Soil	6/25/02	ND (< 0.04)	
		8-2718-CH2M	Soil	6/25/02	ND (< 0.04)	
		8-2719-CH2M	Soil	6/25/02	ND (< 0.04)	
		8-2720-CH2M	Soil	6/25/02	ND (< 0.04)	
		8-2721-CH2M	Soil	6/25/02	ND (< 0.04)	

Sample numbers beginning with PC were collected by TtEMI. Sample numbers beginning with B were collected by CH2M HILL. All other samples were collected by SSPORTS.

The following wipe and/or solid samples were collected from the floor of Building 84 on 2/22/95 and had PCB results <10 µg/100 cm² or <2 mg/kg: 4357-0003 through 0006 (asphalt); 4357-0019 through 0010 (painted asphalt); 4357-0011 (soil); 4357-0012 through 0013 (painted asphalt); 4357-0017 (asphalt); 4357-0018 through 0020 (painted asphalt); 4357-0021 through 0023 (asphalt); 4357-0024 through 0025 (painted asphalt); 4357-0029 (painted concrete); 4357-0031 through 0036 (painted concrete); 4357-0038 through 0042 (painted concrete); 4357-0044 (painted concrete); 4357-0045 (painted asphalt).

AL Assessment Location.

J estimated concentration. mg/kg milligrams per kilogram.

ND not detected (laboratory reporting limit in parentheses).

PCB polychlorinated biphenyl.

Table A-1

TABLE 1
Sample Results for PCB Site Building 84 AL#01
PCB Site Building 84 AL#01 Cleanup Activities and Indoor Air Polychlorinated Biphenyl Screening,
Lennar Mare Island, Vallejo, California

Sample Number	Sample Date	Sample Depth (feet bgs)	Sample Matrix	Total PCB Concentration ⁴
B84AL1GB0162	06/25/2002	1.5	Soil	<0.060 mg/kg
B84AL1GB0163	06/25/2002	1.5	Soil	<0.056 mg/kg
B84AL1GB0164	06/25/2002	1.5	Soil	<0.057 mg/kg
B84AL1GB0165	06/25/2002	1.5	Soil	<0.056 mg/kg
B84AL1GB0166	06/25/2002	1.5	Soil	<0.057 mg/kg
B84AL1GB0167	06/25/2002	1.5	Soil	<0.055 mg/kg
B84AL1GB0168	06/25/2002	1.5	Soil	<0.056 mg/kg
B84AL1GB0169	06/25/2002	1.5	Soil	<0.059 mg/kg
B84-CH100	12/03/2003	0	Asphalt	0.86 mg/kg
B84-CH101	12/03/2003	0	Asphalt	0.13 mg/kg
B84-CH102	12/03/2003	0	Asphalt	0.75 mg/kg
B84-0801	01/08/2004	1.0	Soil	0.17 mg/kg
B84-0802	01/08/2004	1.0	Soil	1.2 mg/kg
B84-0803	01/08/2004	1.0	Soil	0.17 mg/kg
B84-0804	01/08/2004	1.0	Soil	<0.054 mg/kg
B84-0802	01/23/2004	2.0	Soil	0.11 mg/kg
B84-WP0200	06/02/2004	0	Wipe	<0.5J μg/wipe
B84-WP0201	06/02/2004	0	Wipe	<0.5J μg/wipe
B84-WP0202	06/02/2004	0	Wipe	<0.5J μg/wipe
B84-WP0203	06/02/2004	0	Wipe	<0.5J µg/wipe
B84-SS0204	06/03/2004	0	Dust	2.2 mg/kg
B84-SS0205	06/10/2004	0	Dust	5.8 mg/kg
B84-SS0206	06/10/2004	0	Dust	0.86 mg/kg
B84AL01-CS0801	09/26/2006	1.0	Soil	<0.26 mg/kg
B84AL01-CS0802	09/26/2006	1.0	Soil	<0.28 mg/kg
B84AL01-CS0803	09/26/2006	1.0	Soil	<0.057 mg/kg
B84AL01-CS0804	09/26/2006	1.0	Soil	<0.23 mg/kg
B84AL01-CS0805	09/26/2006	1.0	Soil	<0.25 mg/kg
B84AL01-CS0806	09/26/2006	1.0	Soil	<0.28 mg/kg
B84AL01-CS0807	09/26/2006	1.0	Soil	<0.28 mg/kg
B84AL01-CS0808	09/26/2006	1.0	Soil	<0.25 mg/kg
B84AL01-CS0809	09/26/2006	1.0	Soil	<0.25 mg/kg
B84AL01-CS0810	09/26/2006	1.0	Soil	<0.26 mg/kg

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TABLE 1
Sample Results for PCB Site Building 84 AL#01
PCB Site Building 84 AL#01 Cleanup Activities and Indoor Air Polychlorinated Biphenyl Screening,
Lennar Mare Island, Vallejo, California

Sample Number	Sample Date	Sample Depth (feet bgs)	Sample Matrix	Total PCB Concentration
B84AL01-CS0811	09/26/2006	1.0	Soil	<0.24 mg/kg
B84AL01-CS0812	09/26/2006	1.0	Soil	<0.26 mg/kg
B84AL01-CS0813	09/26/2006	1.0	Soil	<0.29 mg/kg
B84AL01-CS0814	09/26/2006	1.0	Soil	<0.29 mg/kg
B84AL01-CS0815	09/26/2006	1.0	Soil	<0.29 mg/kg
B84AL01-CS0816	09/26/2006	1.0	Soil	<0.26 mg/kg
B84AL01-CS0817	09/26/2006	1.0	Soil	0.10 mg/kg
B84AL01-CS0818	09/26/2006	1.0	Soil	<0.25 mg/kg
B84AL01-CS0819	09/26/2006	1.0	Soil	0.070 mg/kg
B84AL01-CS0820	09/26/2006	1.0	Soil	0.097 mg/kg
B84AL01-CS0821	09/26/2006	1.5	Soil	<0.27 mg/kg
B84AL01-CS0822	09/26/2006	1.0	Soil	<0.055 mg/kg
B84AL01-CS0823	09/26/2006	1.0	Soil	<0.32 mg/kg
B84AL01-CS0824	09/26/2006	1.0	Soil	0.13 mg/kg
B84AL01-CS0825	09/26/2006	1.5	Soil	1.5 mg/kg
B84AL01-CS0826	09/26/2006	1.0	Soil	0.080 mg/kg
B84AL01-CS0827	09/26/2006	1.0	Soil	0.30 mg/kg
B84AL01-CS0828	09/26/2006	1.0	Soil	0.61 mg/kg
B84AL01-CS0829	09/28/2006	1.0	Soil	<0.28 mg/kg
B84AL01-CS0830	09/28/2006	1.0	Soil	<0.22 mg/kg
B84AL01-CS0831	09/28/2006	1.0	Soil	<0.28 mg/kg
B84AL01-CS0832	09/28/2006	1.0	Soil	<0.25 mg/kg
B84AL01-CS0834	09/28/2006	1.0	Soil	<0.24 mg/kg
B84AL01-CS0835	09/28/2006	1.0	Soil	<0.21 mg/kg
B84AL01-CS0836	09/28/2006	1.0	Soil	<0.22 mg/kg
B84AL01-CS0837	09/28/2006	1.0	Soil	<0.24 mg/kg
B84AL01-CS0838	09/28/2006	1.0	Soil	<0.24 mg/kg
B84AL01-CS0839	09/28/2006	1.0	Soil	<0.27 mg/kg
B84AL01-CS0840	09/28/2006	1.0	Soil	<0.23 mg/kg
B84AL01-CS0841	09/28/2006	1.0	Soil	<0.25 mg/kg
B84AL01-CS0842	09/28/2006	1.0	Soil	0.57 mg/kg
B84AL01-CS0843	09/28/2006	1.0	Soil	3.0 mg/kg
B84AL01-CS0844	09/28/2006	1.0	Soil	<0.25 mg/kg
B84AL01-CS0845	09/28/2006	1.0	Soil	<0.21 mg/kg

Table A-2

TABLE 1
Sample Results for PCB Site Building 84 AL#01
PCB Site Building 84 AL#01 Cleanup Activities and Indoor Air Polychlorinated Biphenyl Screening,
Lennar Mare Island, Vallejo, California

Sample Number	Sample Date	Sample Depth (feet bgs)	Sample Matrix	Total PCB Concentration ^a
B84AL01-CS0846	09/28/2006	1.0	Soil	0.40 mg/kg
B84AL01-CS0825	10/31/2006	5.5	Soil	<0.055 mg/kg
B84AL01-CS0827	10/31/2006	4.0	Soil	<0.054 mg/kg
B84AL01-CS0828	10/31/2006	4.0	Soil	0.11 mg/kg
B84AL01-CS0842	10/31/2006	4.0	Soil	<0.060 mg/kg
B84AL01-CS0843	10/31/2006	3.0	Soil	1.9J mg/kg
B84AL01-CS0846	10/31/2006	4.0	Soil	<0.052 mg/kg
B84AL01-CS0843	11/21/2006	5.0	Soil	0.13 mg/kg
B84AL01-CS0851	05/01/2007	1.0	Soil	<0.051 mg/kg
B84AL01-CS0852	05/01/2007	1.0	Soil	<0.056 mg/kg
B84AL01-CS0853	05/01/2007	1.0	Soil	<0.053 mg/kg
B84AL01-CS0854	05/01/2007	1.0	Soil	<0.053 mg/kg
B84AL01-CS0855	05/01/2007	1.0	Soil	<0.057 mg/kg
B84AL01-CS0856	05/01/2007	1.0	Soil	<0.053 mg/kg
B84AL01-CS0857	05/01/2007	1.0	Soil	<0.055 mg/kg
B84AL01-CS0858	05/01/2007	1.0	Soil	<0.055 mg/kg
B84AL01-CS0859	05/01/2007	1.0	Soil	<0.050 mg/kg
B84AL01-CS0860	05/01/2007	1.0	Soil	<0.055 mg/kg
B84AL01-CS0861	05/01/2007	1.0	Soil	<0.053 mg/kg
B84AL01-CS0862	05/01/2007	1.0	Soil	<0.053 mg/kg
B84AL01-CS0863	05/01/2007	1.0	Soil	<0.056 mg/kg
B84AL01-CS0864	05/01/2007	1.0	Soil	<0.055 mg/kg
B84AL01-CS0865	05/01/2007	1.0	Soil	<0.051 mg/kg
B84AL01-CS0866	05/01/2007	1.0	Soil	<0.055 mg/kg
B84AL01-CS0867	05/01/2007	1.0	Soil	<0.056 mg/kg
B84AL01-CS0868	05/01/2007	1.0	Soil	<0.053 mg/kg
B84AL01-CS0869	05/01/2007	1.0	Soil	<0.060 mg/kg
B84AL01-CS0870	05/01/2007	1.0	Soil	<0.061 mg/kg
B84AL01-CS0871	05/01/2007	1.0	Soil	<0.057 mg/kg
B84AL01-CS0872	05/01/2007	1.0	Soil	<0.055 mg/kg
B84AL01-CS0873	05/01/2007	1.0	Soil	<0.061 mg/kg
B84AL01-CS0874	05/01/2007	1.0	Soil	0.14 mg/kg
B84AL01-CS0875	05/03/2007	1.0	Soil	<0.059 mg/kg
B84AL01-CS0876	05/03/2007	1.0	Soil	<0.057 mg/kg

Table A-2

TABLE 1
Sample Results for PCB Site Building 84 AL#01
PCB Site Building 84 AL#01 Cleanup Activities and Indoor Air Polychlorinated Biphenyl Screening,
Lennar Mare Island, Vallejo, California

Sample Number	Sample Date	Sample Depth (feet bgs)	Sample Matrix	Total PCB Concentration ^a
B84AL01-CS0877	05/03/2007	1.0	Soil	<0.057 mg/kg
B84AL01-CS0878	05/03/2007	1.0	Soil	<0.060 mg/kg
B84AL01-CS0879	05/03/2007	1.0	Soil	<0.058 mg/kg
B84AL01-CS0880	05/03/2007	1.0	Soil	<0.066 mg/kg
B84AL01-CS0881	05/03/2007	1.0	Soil	<0.058 mg/kg
B84AL01-CS0882	05/03/2007	1.0	Soil	<0.055 mg/kg
B84AL01-CS0883	05/03/2007	1.0	Soil	<0.055 mg/kg
B84AL01-CS0884	05/03/2007	1.0	Soil	<0.056 mg/kg
B84AL01-CS0885	05/03/2007	1.0	Soil	<0.057 mg/kg
B84AL01-CS0886	05/03/2007	1.0	Soil	<0.057 mg/kg
B84AL01-CS0887	05/03/2007	1.0	Soil	<0.053 mg/kg
B84AL01-CS0888	05/03/2007	1.0	Soil	<0.057 mg/kg
B84AL01-CS0889	05/03/2007	1.0	Soil	<0.057 mg/kg
B84AL01-CS0890	05/03/2007	1.0	Soil	<0.057 mg/kg
B84AL01-CS0891	05/03/2007	1.0	Soil	<0.052 mg/kg
B84AL01-CS0892	05/03/2007	1.0	Soil	<0.055 mg/kg
B84AL01-CS0893	05/03/2007	1.0	Soil	<0.055 mg/kg
B84AL01-CS0894	05/03/2007	1.0	Soil	<0.056 mg/kg
B84AL01-CS0895	05/03/2007	1.0	Soil	<0.058 mg/kg
B84AL01-CS0896	05/03/2007	1.0	Soil	<0.058 mg/kg
B84AL01-CS0897	05/03/2007	1.0	Soil	<0.057 mg/kg
B84AL01-CS0898	05/03/2007	1.0	Soil	<0.057 mg/kg
B84AL01-CS0899	05/03/2007	. 1.0	Soil	<0.060 mg/kg
B84AL01-CS0900	05/03/2007	1.0	Soil	<0.056 mg/kg
B84AL01-CS0901	05/03/2007	1.0	Soil	<0.060 mg/kg
B84AL01-CS0902	05/03/2007	1.0	Soil	<0.056 mg/kg
B84AL01-CS0903	05/03/2007	1.0	Soil	<0.057 mg/kg
B84AL01-CS0904	05/03/2007	1.0	Soil	<0.060 mg/kg
B84AL01-CS0905	05/03/2007	1.0	Soil	<0.061 mg/kg
B84AL01-CS0906	05/03/2007	1.0	Soil	<0.059 mg/kg
B84AL01-CS0907	05/03/2007	1.0	Soil	<0.056 mg/kg
B84AL01-CS0908	05/03/2007	1.0	Soil	<0.054 mg/kg
B84AL01-CS0909	05/03/2007	1.0	Soil	<0.055 mg/kg
B84AL01-CS0910	05/03/2007	1.0	Soil	<0.055 mg/kg

Table A-2

MITABLEA-2D.DWG

TABLE 1
Sample Results for PCB Site Building 84 AL#01
PCB Site Building 84 AL#01 Cleanup Activities and Indoor Air Polychlorinated Biphenyl Screening,
Lennar Mare Island, Vallejo, California

Sample Number	Sample Date	Sample Depth (feet bgs)	Sample Matrix	Total PCB Concentration
B84AL01-CS0911	05/03/2007	1.0	Soil	<0.055 mg/kg
B84AL01-CS0912	05/03/2007	1.0	Soil	<0.054 mg/kg
B84AL01CS0913	05/10/2007	1.0	Soil	<0.055 mg/kg
B84AL01CS0914	05/10/2007	1.0	Soil	<0.057 mg/kg
B84AL01CS0915	05/10/2007	1.0	Soil	<0.049 mg/kg
B84AL01CS0916	05/10/2007	1.0	Soil	<0.055 mg/kg
B84AL01CS0917	05/10/2007	1.0	Soil	<0.26 mg/kg
B84AL01CS0918	05/10/2007	1.0	Soil	<0.29 mg/kg
B84AL01CS0919	05/10/2007	1.0	Soil	<0.054 mg/kg
B84AL01CS0920	05/10/2007	1.0	Soil	<0.057 mg/kg
B84AL01CS0921	05/10/2007	1.0	Soil	<0.23 mg/kg
B84AL01CS0922	05/10/2007	1.0	Soil	<0.050 mg/kg
B84AL01CS0923	05/10/2007	1.0	Soil	<0.30 mg/kg
B84AL01CS0924	05/10/2007	1.0	Soil	<0.058 mg/kg
B84AL01CS0925	05/10/2007	1.0	Soil	<0.25 mg/kg
B84AL01CS0926	05/10/2007	1.0	Soil	<0.29 mg/kg
B84AL01CS0927	05/10/2007	1.0	Soil	<0.26 mg/kg
B84AL01CS0928	05/10/2007	1.0	Soil	<0.29 mg/kg

^aFor samples collected by CH2M HILL, total PCBs are calculated by summing all of the detected Aroclors or by using a proxy value of one-half the reporting limit for historically detected Aroclors and adding this to detected Aroclors.

μg/wipe
 bgs
 below ground surface
 J
 estimated concentration
 mg/kg
 milligrams per kilogram
 PCB
 polychlorinated biphenyl

TABLE 2
PCB Site Building 84 AL#01 Air Sample Analytical Results – May 2004
PCB Site Building 84 AL#01 Cleanup Activities and Indoor Air Polychlorinated Biphenyl Screening, Lennar Mare Island, Vallejo, California

Sample Numbers							
Analyte	84-AIR-101	84-AIR-102 (duplicate of 84-AIR-101)	84T-AIR-103 (tent)	84-AIR-104	84-AIR-105 (background)	84-AIR-106 (background)	84-AIR-107 (field blank)
Total monoCB	0.44	0.43	0.28	0.62	<0.05	<0.05	<0.05
Total diCB	8.3	8.3	4.3	11 ⁻	<0.10	<0.10	<0.10
Total triCB	27	27	11	38	<0.05	<0.05	<0.05
Total tetraCB	12	12	4.8	17	<0.10	<0.10	<0.10
Total pentaCB	1.3	1.3	0.51	1.6	<0.10	<0.10	<0.10
Total hexaCB	0.26	0.24	0.08	0.30	<0.10	<0.10	<0.10
Total heptaCB	<0.10	0.02	<0.10	0.02	<0.10	<0.10	<0.10
Total octaCB	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Total nonaCB	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Total decaCB	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Total PCBs	49	49	21	69	<0.30	<0.30	<0.30

Air sample results are presented as ng/m³.

Ambient air PRG = 3.4 ng/m³ (United States Environmental Protection Agency Region 9 2004 value for unspeciated PCB mixture, high risk). Calculated risk-based screening level (commercial/industrial land use scenario) = 7.2 ng/m³.

CB = chlorinated biphenyl

ng/m³ = nanograms per cubic meter PCB = polychlorinated biphenyl PRG = preliminary remediation goal

Table A-3

TABLE 3
PCB Site Building 84 AL#01 Air Sample Analytical Results – June 2005
PCB Site Building 84 AL#01 Cleanup Activities and Indoor Air
Polychlorinated Biphenyl Screening, Lennar Mare Island, Vallejo, California

Analyte	84-AIR-202	84-AIR-208
Total monoCB	0.68	0.69
Total diCB	17	17
Total triCB	61	58
Total tetraCB	26	22
Total pentaCB	2.6	2.3
Total hexaCB	0.65	0.54
Total heptaCB	0.13	0.08
Total octaCB	<0.10	<0.10
Total nonaCB	<0.10	<0.10
Total decaCB	<0.10	<0.10
Total PCBs	110	100

Air sample results are presented as ng/m³.

Ambient air PRG = 3.4 ng/m³ (United States Environmental Protection Agency Region 9 2004 value for unspeciated PCB mixture, high risk). Calculated risk-based screening level (commercial/industrial land use scenario) = 7.2 ng/m³.

CB = chlorinated biphenyl

ng/m³ = nanograms per cubic meter

PCB = polychlorinated biphenyl

PRG = preliminary remediation goal

Table A-4

TABLE 4

PCB Site Building 84 AL#01 Air Sample Analytical Results – December 2006

PCB Site Building 84 AL#01 Cleanup Activities and Indoor Air Polychlorinated Biphenyl Screening, Lennar Mare Island, Vallejo, California

Analyte	B84717A-AIR	B84A717	B84A718	B84A719
Total monoCB	0.60	0.50	0.71	0.54
Total diCB	26	19	20	17
Total triCB	73	53	60	50
Total tetraCB	29	19	23	20
Total pentaCB	9.2	4.1	4.9	3.6
Total hexaCB	1.8	0.83	0.92	0.68
Total heptaCB	0.14	0.05	0.11	0.07
Total octaCB ^a	<0.13 or <0.25	<0.13 or <0.25	<0.13 or <0.25	<0.13 or <0.25
Total nonaCB	<0.13	<0.13	<0.13	<0.13
Total decaCB	NA	NA	NA	NA
Total PCB	140	96	110	91

^aDepending on the congener used, total octaCB reporting limit was 0.13 or 0.25.

Air sample results are presented as ng/m³.

Ambient air PRG (residential land use scenario) = 3.4 ng/m³ (United States Environmental Protection Agency Region 9 2004 value for unspeciated PCB mixture, high risk). Calculated risk-based screening level (commercial/industrial land use scenario) = 7.2 ng/m³.

CB = chlorinated biphenyl

NA = not analyzed

ng/m³ = nanograms per cubic meter
PCB = polychlorinated biphenyl
PRG = preliminary remediation goal

TABLE 5
PCB Site Building 84 AL#01 Air Sample Analytical Results – June 2007
PCB Site Building 84 AL#01 Cleanup Activities and Indoor Air Polychlorinated Biphenyl Screening, Lennar Mare Island, Vallejo, California

Analyte	B84AIR0817-A	B84AIR0818-A	B84AIR0818-AFD	B84AIR0819-A
Total monoCB	0.36	0.37	0.32	0.37
Total diCB	27	26	24	25
Total triCB	70	69	69	61
Total tetraCB	33	34	31	32
Total pentaCB	4.4	4.1	5.1	3.9
Total hexaCB	0.85	0.90	1.1	0.87
Total heptaCB	0.11	0.15	0.12	0.11
Total octaCB ^a	<0.13 or <0.25	<0.13 or <0.25	<0.13 or <0.25	<0.13 or <0.25
Total nonaCB	<0.13	<0.13	<0.13	<0.13
Total decaCB	<0.13	<0.13	<0.13	<0.13
Total PCBs	130	130	130	120

^aDepending on the congener used, total octaCB reporting limit was 0.13 or 0.25.

Air sample results are presented as ng/m³.

Ambient air PRG (residential land use scenario) = 3.4 ng/m³ (United States Environmental Protection Agency Region IX 2004 value for unspeciated PCB mixture, high risk). Calculated risk-based screening level (commercial/industrial land use scenario) = 7.2 ng/m³.

CB = chlorinated biphenyl

ng/m³ = nanograms per cubic meter

PCB = polychlorinated biphenyl

PRG = preliminary remediation goal

ATTACHMENT B LABORATORY REPORT (2009 Sampling)

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 9471O, Phone (510) 486-0900

Laboratory Job Number 209794 ANALYTICAL REPORT

Remedy Engeneering

1567 Yuba St

Redding, CA 96001

Project : 101204

Location: B84 Mezzanine

Level : II

<u>Sample ID</u>	<u>Lab ID</u>
B84MEZZRE0101	209794-001
B84MEZZRE0102	209794-002
B84MEZZRE0103	209794-003
B84MEZZRE0104	209794-004
B84MEZZRE0105	209794-005
B84MEZZRE0106	209794-006
B84MEZZRE0107	209794-007
B84MEZZRE0108	209794-008
B84MEZZRE0108D	209794-009
B84MEZZRE0109	209794-010
B84MEZZRE0110	209794-011
B84MEZZRE0111	209794-012
B84MEZZRE0112	209794-013
B84MEZZRE0113	209794-014
B84MEZZRE0114	209794-015
B84MEZZRE0115	209794-016
B84MEZZRE0116	209794-017
B84MEZZRE0120	209794-018
B84MEZZRE0117	209794-019
B84MEZZRE0118	209794-020
B84MEZZRE0119	209794-021
B84MEZZRE0119D	209794-022

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:

Project Manager

・レス

Signature:

Senior Program Manager

Date: <u>02/13/2009</u>

Date: <u>02/18/2009</u>

NELAP # 01107CA



CASE NARRATIVE

Laboratory number:

209794

Client:

Remedy Engeneering

Project:

101204

Location:

B84 Mezzanine

Request Date:

02/05/09

Samples Received:

02/05/09

This data package contains sample and QC results for twenty two concrete samples, requested for the above referenced project on 02/05/09. The samples were received cold and intact.

PCBs (EPA 8082):

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. Low surrogate recoveries were observed for decachlorobiphenyl in the MSD for batch 147725 and the method blank/BS/BSD for batch 147765; the corresponding TCMX surrogate recoveries were within limits. No other analytical problems were encountered.

Curtis & Tompkins, Ltd.

Analytical Laboratory Since 1878 2323 Fifth Street Berkeley, CA 94710 (510) 486-0900 Phone (510) 486-0532 Fax

CHAIN OF CUSTODY

Page 2 of 2

C&T LOGIN#: 209794

Analysis

Project No.: 101204	Report To: Tom Corontzos
Project Name: B84 Mezzgnine	company: Remech Engineering
Project P.O.:	Telephone: (530) 241 - 7658
urnaround Time: Nocma	Fax: (630) 241 - 7659

Matrix Preservative Waste Water HSO. HNO. **Sampling Date** Soil # of Lab Sample ID. Containers Time No. BBAMETTREOIS 11:27 11:35 0114 0115 X 0116 te 13:40 X 13:45 0120 11 0117 13:50 14:00 OHR 1' X X 0119 14:10 , (14:12 01190 2 SAMPLE RECEIPT Notes: **RELINQUISHED BY:** Intact Cold 2/5/04 15:00 Joshun Woodard On Ice Ambient DATE / TIM Preservative Correct? Yes No NA DATE / TIME

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	Z808 S,870 XXXXXX													
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3 of 20

SIGNATURE

Curtis & Tompkins, Ltd.

Analytical Laboratory Since 1878 2323 Fifth Street Berkeley, CA 94710 (510) 486-0900 Phone (510) 486-0532 Fax

CHAIN OF CUSTODY

Page 1 of 2

2 & T LOGIN #: 209794

Analysis

Project No.: 101204	Report To: Tom Corontzos
Project Name: B84 Mezzanine	company: Remedy Engeneering
Project P.O.:	Telephone: (536) 241-7658
Turnaround Time: Norma	Fax: (530)241-7659

Turnaro	und Time:	Normal	Fax:	-	(5	30)241-7	<u>65</u>	4				8									
					Ма	trix			1	Pres	erv	ative	•	1									
Lab No.	Sam	ple ID.	Sampling Date Time	Soil	Water	Waste	Coxrek	# of Containers	· HCL	H _S SO.	, HNO H	ICE	None	PCB'S									
(BRYMER	78F0101	09:57				X	1					×	X									
2	f 1	0102	10:08				X	1					X	X									
3	11	0103	10:20				X	1					X	*									
4.	11	0104	10:25				X	1					X	X									
5	11	0105	10:30				X	1					X	X									
6	11	0106	10:45				X	1					X	X									
1	11	0107	10:50				X	ı					X	X									
8	16	0108	11:00				X	1					X	X									
9	Ц	01080	11:02				X	1					X	X									
10	16	0109	11:05				X	1					X	X									
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Notes:			SAMPLE RECEIPT	RE	LIN	QU	ISH	ED BY:			1.			RE	CEIY	ED	BY:				ı		
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			Yes No NA								D	ATE	/ TIMI	1_		_		_			DA	TE / TIN	ΛE
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4. Were custody papers filled out properly (ink, signed, etc)? 5. Is the project identifiable from custody papers? (If so fill out top of form) (6. Indicate the packing in cooler: (if other, describe) Bubble Wrap	is & Tompkins, Ltd.
1. Did cooler come with a shipping slip (airbill, etc) Shipping info 2A. Were custody seals present? YES (circle) on cooler On samples How many Name Date 2B. Were custody papers dry and intact when received? 4. Were custody papers filled out properly (ink, signed, etc)? 5. Is the project identifiable from custody papers? (If so fill out top of form) 6. Indicate the packing in cooler: (if other, describe) Bubble Wrap	oolers MML
Shipping info 2A. Were custody seals present? YES (circle) on cooler on samples How many Name Date 2B. Were custody seals intact upon arrival? 3. Were custody papers dry and intact when received? 4. Were custody papers filled out properly (ink, signed, etc)? 5. Is the project identifiable from custody papers? (If so fill out top of form) 6. Indicate the packing in cooler: (if other, describe) Bubble Wrap Foam blocks Bags No Cloth material Cardboard Styrofoam Pa 7. Temperature documentation: Type of icc used: Wet Blue/Gel None Temp(°C) Samples Received on ice & cold without a temperature blank Samples received on ice directly from the field. Cooling process had 8. Were Method 5035 sampling containers present? If YES, what time were they transferred to freezer? 9. Did all bottles arrive unbroken/unopened? 10. Are samples in the appropriate containers for indicated tests? 11. Are sample labels present, in good condition and complete? 12. Do the sample labels agree with custody papers? 13. Was sufficient amount of sample sent for tests requested? 14. Are the samples appropriately preserved? 15. Are bubbles > 6mm absent in VOA samples? If YES, Who was called? By COMMENTS	
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Cloth material Cardboard Styrofoam Pa 7. Temperature documentation: Type of ice used: Wet Blue/Gel None Temp(°C) Samples Received on ice & cold without a temperature blank Samples received on ice directly from the field. Cooling process had 8. Were Method 5035 sampling containers present? If YES, what time were they transferred to freezer? 9. Did all bottles arrive unbroken/unopened? 10. Are samples in the appropriate containers for indicated tests? 11. Are sample labels present, in good condition and complete? 12. Do the sample labels agree with custody papers? 13. Was sufficient amount of sample sent for tests requested? 14. Are the samples appropriately preserved? 15. Are bubbles > 6mm absent in VOA samples? 16. Was the client contacted concerning this sample delivery? If YES, Who was called? By COMMENTS	YES NO N/A- YES NO YES NO YES NO
Samples Received on ice & cold without a temperature blank Samples received on ice directly from the field. Cooling process had 8. Were Method 5035 sampling containers present? If YES, what time were they transferred to freezer? 9. Did all bottles arrive unbroken/unopened? 10. Are samples in the appropriate containers for indicated tests? 11. Are sample labels present, in good condition and complete? 12. Do the sample labels agree with custody papers? 13. Was sufficient amount of sample sent for tests requested? 14. Are the samples appropriately preserved? 15. Are bubbles > 6mm absent in VOA samples? 16. Was the client contacted concerning this sample delivery? If YES, Who was called?	one per towels
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Rev. 6 Number 1 of 3 Effective: 23 July 2008

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Polychlorinated Biphenyls (PCBs) B84 Mezzanine Location: Lab #: Remedy Engeneering EPA 3550B Client: Prep: Analysis: Sampled: Project#: 101204 EPA 8082 02/05/09 Units: ug/Kg 02/05/09 as received Received: Basis:

Field ID: Type: Lab ID:

B84MEZZRE0101 SAMPLE 209794-001 Miscell.

Batch#: Prepared: Analyzed:

Cleanup Method:

147765 02/09/09 02/10/09 EPA 3665A

Matrix: Diln Fac: 25.00

Analyte S.	Result Andrews	Building to RL Supplied 1984 on the Superior	
Aroclor-1016	ND	210	
Aroclor-1221	ND	410	
Aroclor-1232	ND	210	
Aroclor-1242	12,000	210	
Aroclor-1248	ND	210	
Aroclor-1254	ND	210	
Aroclor-1260	370	210	

AND THE SURFOCK OF THE PROPERTY OF THE STATE OF THE PROPERTY O DO 68-139 TCMX 52-147 Decachlorobiphenyl DO

Field ID: Type:

Lab ID:

B84MEZZRE0102 SAMPLE 209794-002

Miscell.

Batch#: Prepared: Analyzed:

147765 02/09/09 02/10/09 Cleanup Method: EPA 3665A

Matrix: Diln Fac:

25.00

Analyte Analyte	With the second second second second		and the first of the first section of the
Aroclor-1016	ND	210	
Aroclor-1221	ND	420	
Aroclor-1232	ND	210	
Aroclor-1242	16,000	210	
Aroclor-1248	ИD	210	
Aroclor-1254	ND	210	
Aroclor-1260	400	210	

Surrogate	* * * * * * * * * * * * * * * * * * *	Limits	经营业的 医甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	· · · · · · · · · · · · · · · · · · ·	·希腊的。特别 (5)公园图18
TCMX	DO	68-139			
Decachlorobiphenyl	DO	52-147			

*= Value outside of QC limits; see narrative

DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

Page 1 of 12



	Polychlorin	ated Biphenyls (PCBs) B84 Mezzanine
Lab #:	209794	Location:	B84 Mezzanine
Client:	Remedy Engeneering	Prep:	EPA 3550B
Project#:	101204	Analysis:	EPA 8082
Units:	ug/Kg	Sampled:	02/05/09
Basis:	as received_	Received:	02/05/09

Field ID: Type: Lab ID:

B84MEZZRE0103 SAMPLE 209794-003

Batch#: Prepared:

147765 02/09/09 Analyzed: 02/10/09 Cleanup Method: EPA 3665A

Matrix: Diln Fac: Miscell. 50.00

Analyte ***	court of the first Result and the first	The Grand RL of what have been	性的疾病性性病的。於是性能是經濟
Aroclor-1016	ND	420	
Aroclor-1221	ND	830	
Aroclor-1232	ND	420	
Aroclor-1242	22,000	420	ţ
Aroclor-1248	ND	420	
Aroclor-1254	ND	420	
Aroclor-1260	480	420	

Surrogate was	TANK BREC	Limits	CONTROL OF THE STATE OF THE SECTION OF THE STATE OF THE STATE OF THE SECTION OF THE STATE OF THE
TCMX	DO	68-139	
Decachlorobiphenyl	DO	52-147	

Field ID:

Type: Lab ID:

B84MEZZRE0104 SAMPLE 209794-004

Miscell.

Batch#:

Prepared: Analyzed:

147765 02/09/09 02/11/09 Cleanup Method: EPA 3665A

Matrix:

Diln Fac: 20.00

Manual Ma	The same was a Result of the con-	o especially also at RL Deposition of the transfer of the section	Congress of the Speeding of the Co
Aroclor-1016	ND	170	
Aroclor-1221	ND	330	
Aroclor-1232	ND	170	1
Aroclor-1242	8,200	170	
Aroclor-1248	ND	170	1
Aroclor-1254	ND	170	1
Aroclor-1260	420	170	

ton-say like to Surrogate of the s	* REC	Limits :	jerskova, sijor kljej til	and the property of the second	· 中国的《西西斯·马克斯·西克斯·马克斯·马克斯	a raust
TCMX	DO	68-139				
Decachlorobiphenyl	DO	52-147				

*= Value outside of QC limits; see narrative

DO= Diluted Out ND= Not Detected

RL= Reporting Limit

Page 2 of 12



Polychlorinated Biphenyls (PCBs) B84 Mezzanine EPA 3550B EPA 8082 Lab #: 209794 Location: Client: Remedy Engeneering 101204 Prep: Project#: Analysis: ug/Kg Sampled: 02/05/09 Units: Basis: as received Received: 02/05/09

Field ID: B84MEZZRE0105 Batch#: 147765
Type: SAMPLE Prepared: 02/09/09
Lab ID: 209794-005 Analyzed: 02/11/09
Matrix: Miscell. Cleanup Method: EPA 3665A
Diln Fac: 20.00

文化的原则是 Analyte	等。於學是一個一種一般,不 Result 的。這個的主義	State of RL Co. 18 The Laboration Control	and Ardard Source and Control of the
Aroclor-1016	ND	170	
Aroclor-1221	ND	330	
Aroclor-1232	ND	170	
Aroclor-1242	11,000	170	
Aroclor-1248	ND	170	
Aroclor-1254	N D	170	
Aroclor-1260	460	170	

Surrogate na Action	*** * * * * * * * * * * * * * * * * *	Minits was also we	1. 四张大道的"下江"后往北京公司等。	特的主席的問題的。如何,這些個經濟	民共为政府政府,刘攸及为政
TCMX	DO	68-139			
Decachlorobiphenyl	DO	52-147			

Field ID: B84MEZZRE0106 Batch#: 147725
Type: SAMPLE Prepared: 02/08/09
Lab ID: 209794-006 Analyzed: 02/09/09
Matrix: Miscell. Cleanup Method: EPA 3665A
Diln Fac: 20.00

TARRIES Analyte BARRIES	WHILE SHOWING Result With Co.	transfer of RL of Approximation of the second	经在海岸的东西增加的
Aroclor-1016	ND	130	
Aroclor-1221	ND	270	
Aroclor-1232	ND	130	
Aroclor-1242	6,600	130	
Aroclor-1248	ND	130	·
Aroclor-1254	ND	130	
Aroclor-1260	200	130	

Surrogate	* * * * * * * * * * * * * * * * * * *	Limits	概算生活的 不可以 "我们是一个一个	والمراوي والمراوات والمتحلومين	"并始为"统"主义被共和共和国的高级联合管理
TCMX	DO	68-139			· · · · · · · · · · · · · · · · · · ·
Decachlorobiphenyl	DO	52-147			

DO= Diluted Out ND= Not Detected RL= Reporting Limit

Page 3 of 12

^{*=} Value outside of QC limits; see narrative



industry the		ated Biphenyls ((PCBs)
Lab #:	209794	Location:	B84 Mezzanine
Client:	Remedy Engeneering	Prep:	EPA 3550B
Project#:	101204	Analysis:	EPA 8082
Units:	ug/Kg	Sampled:	02/05/09
Basis:	as <u>received</u>	Received:	02/05/09

Field ID: B84MEZZRE0107 Batch#: 147765
Type: SAMPLE Prepared: 02/09/09
Lab ID: 209794-007 Analyzed: 02/11/09
Matrix: Miscell. Cleanup Method: EPA 3665A
Diln Fac: 10.00

Analyte	Result (1997)	(1945年) 大学 RL 中国教教的自然是全国的	等於我們不管我一個一十一年不過一個一個
Aroclor-1016	ND	83	
Aroclor-1221	ND	170	
Aroclor-1232	ND	83	
Aroclor-1242	5,900	83	
Aroclor-1248	ND	83	
Aroclor-1254	ND	83	
Aroclor-1260	ND	83	

Surrogate	。由于阿里尔马斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯	Limits	。 1985年,1987年中国中国共和国的国际基本的共和国的国际的国际,在1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年
TCMX	DO	68-139	
<u>Decachlorobiphenyl</u>	DO	52-147	

Field ID: B84MEZZRE0108 Batch#: 147765
Type: SAMPLE Prepared: 02/09/09
Lab ID: 209794-008 Analyzed: 02/11/09
Matrix: Miscell. Cleanup Method: EPA 3665A
Diln Fac: 20.00

Analyte	The write of the Service Result to the Service of	grafigue de ligi <mark>ra d</mark> e grafigio localitation de la proposition de la proposition de la constanción de la constanción de la proposition de la constanción de la proposition de la constanción de
Aroclor-1016	ND	170
Aroclor-1221	ND	330
Aroclor-1232	ND	170
Aroclor-1242	9,700	170
Aroclor-1248	ND	170
Aroclor-1254	ND	170
Aroclor-1260	310	<u> </u>

Surrogate:	112 796 000% BREC	Limits	gagiates in any in	Parallel State of the season of the latter	· 人名英西克·西班牙纳克克·克克克克	S = 1.57 - 4
TCMX	DO	68-139				
Decachlorobiphenyl	DO	52-147				

*= Value outside of QC limits; see narrative

DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

Page 4 of 12



Polychlorinated Biphenyls (PCBs) B84 Mezzanine EPA 3550B 209794 Lab #: Location: Client: Remedy Engeneering Prep: EPA 8082 101204 Analysis: Project#: 02/05/09 02/05/09 Units: ug/Kg Sampled: Received: Basis: <u>as received</u>

Field ID: Type: Lab ID:

B84MEZZRE0108D

SAMPLE

Matrix: Diln Fac: 209794-009 Miscell. 10.00

Batch#:

Prepared: Analyzed:

Cleanup Method:

147765 02/09/09 02/11/09

EPA 3665A

Analyte 4	Commence Resulting	residential RL iver of the entry states	्रमुक्त अ क्षानिका राज्य िकी । १९५५ क्रिक्ट हैन १५५० क्रि
Aroclor-1016	ND	83	
Aroclor-1221	ND	· 1 70	
Aroclor-1232	ND	83	
Aroclor-1242	5,800	83	
Aroclor-1248	ND	83	
Aroclor-1254	ND	83	
Aroclor-1260	190	83	

Surrogates - The State of the S TCMX DO 68-139 52<u>-147</u> Decachlorobiphenyl DO

Field ID:

Diln Fac:

B84MEZZRE0109

Type: Lab ID: Matrix: SAMPLE 209794-010

Miscell. 20.00

Batch#:

147765

Prepared: Analyzed:

02/09/09 02/11/09 Cleanup Method: EPA 3665A

Analyte	The angle of the Result of the State of the Result of the State of the	White and RL tell Land	and the state of t
Aroclor-1016	ND	170	
Aroclor-1221	ND	330	
Aroclor-1232	N D	170	
Aroclor-1242	8,000	170	
Aroclor-1248	. N D	170	
Aroclor-1254	ND	170	
Aroclor-1260	260	170	

Surrogate	**************************************	Limits we are the construction of the construc	72 mm 14.3
TCMX	DO	68-139	
Decachlorobiphenyl	DO	52-147	

^{*=} Value outside of QC limits; see narrative

DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

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	Polychlorin	ated Biphenyls	(PCBs)
Lab #:	209794	Location:	B84 Mezzanine
Client:	Remedy Engeneering	Prep:	EPA 3550B
Project#:	101204	Analysis:	EPA 8082
Units:	ug/Kg	Sampled:	02/05/09
Basis:	as received	Received:	02/05/09

147725 Field ID: B84MEZZRE0110 Batch#: Type: Lab ID: Matrix: SAMPLE 209794-011 02/08/09 Prepared: 02/09/09 Analyzed: Miscell. 20.00 Cleanup Method: EPA 3665A Diln Fac:

Analyte	Result	ALM 经合同间 RL 。在这个条件,这个是一个在	化可能基础表现的法则是不同的 化氯化铁矿 医环状
Aroclor-1016	ND	130	
Aroclor-1221	ND	260	
Aroclor-1232	ND	130	
Aroclor-1242	8,300	130	
Aroclor-1248	N D	130	
Aroclor-1254	ND	130	
Aroclor-1260	<u>N</u> D	130_	

Surrogate Surrogate	Additional Control of the State of the Control of t	Limits	I see disposition to their the terminates are the training to	· 李. 是一种 (1985)
TCMX	DO	68-139		
Decachlorobiphenyl	DO	52-147		

Field ID: B84MEZZRE0111 Batch#: 147765 Type: Lab ID: 02/09/09 02/12/09 SAMPLE 209794-012 Prepared: Analyzed: Cleanup Method: EPA 3665A Matrix: Miscell. Diln Fac: 20.00

Promote Analyte Analyte	the whole the same Result when the	to the an arminal many and the production of the con-	والمعارمة والموادي المالية والموادية والموادلين
Aroclor-1016	ND	170	
Aroclor-1221	ND	330	
Aroclor-1232	ND	170	
Aroclor-1242	9,600	170	
Aroclor-1248	ND	170	
Aroclor-1254	ND	170	
Aroclor-1260	290	170	<u>-</u>

AND Surrogate And Strict	STORE & RE	C Limits	grand the second section in the restrict of the first of the second contract of the section of the section of the second of the
TCMX	DO	68-139	
Decachlorobiphenyl	DO_	52-147	

^{*=} Value outside of QC limits; see narrative

DO= Diluted Out ND= Not Detected

RL= Reporting Limit

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Polychlorinated Biphenyls (PCBs) Lab #: Location: B84 Mezzanine Remedy Engeneering Client: Prep: EPA 3550B Analysis: Project#: 101204 EPA 8082 Sampled: 02/05/09 Units: ug/Kg Basis: as received Received: 02/05/09

Field ID: Type: Lāb ID: Matrix:

B84MEZZRE0112 SAMPLE 209794-013 Miscell.

Batch#: Prepared: Analyzed:

147765 02/09/09 02/12/09 Cleanup Method: EPA 3665A

Diln Fac: 20.00

		,所以中央中央RL。但是由《自由》的特别是由中华	经验证证据的证据的证据的
Aroclor-1016	ND	170	
Aroclor-1221	ND	330	
Aroclor-1232	ND	170	
Aroclor-1242	8,400	170	
Aroclor-1248	ND	170	
Aroclor-1254	ND	170	
Aroclor-1260	180	170	

文字文字 Surrogate 经基本的证据,如果是REC 是Limits 的,这是是这个人的 TCMX DO 68-139 Decachlorobiphenyl DO 52-147

Field ID:

Type:

Lab ID:

B84MEZZRE0113 SAMPLE 209794-014 Miscell.

Batch#: Prepared: Analyzed:

Cleanup Method:

147765 02/09/09 02/12/09 EPA 3665A

Matrix: Diln Fac:

20.00

CHARLES Analyte Control of the Control of the Result (1999) ≈ RL 170 330 Aroclor-1016 $\overline{\mathsf{N}\mathsf{D}}$ Aroclor-1221 ND Aroclor-1232 Aroclor-1242 170 ND 7,700 170 ND Aroclor-1248 170 Aroclor-1254 ND 170 Aroclor-1260 260 170

Surrogate	Mark Comment of the BREC	AT I mi ba	300-00 (1)-数2.	est tradere statistical available and a way of	2000 00 120 14 50
TCMX	DO	68-139	क्षित्रकार के वे वेश्वर का का का का कि का कि	The state of the s	SATS NO. 1 NO. 18 AN
Decachlorobiphenvl	DO	52-147			

*= Value outside of QC limits; see narrative

DO= Diluted Out

ND= Not Detected RL= Reporting Limit

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	Polychlorin	ated Biphenyls (PCBs)
Lab #:	209794	Location:	B84 Mezzanine
Client:	Remedy Engeneering	Prep:	EPA 3550B
Project#:	101204	Analysis:	EPA 8082
Units:	ug/Kg	Sampled:	02/05/09
Basis:	as received	Received:	02/05/09

Field ID: B84MEZZRE0114 Batch#: 147765
Type: SAMPLE Prepared: 02/09/09
Lab ID: 209794-015 Analyzed: 02/12/09
Matrix: Miscell. Cleanup Method: EPA 3665A
Diln Fac: 20.00

Analyte :	TWO TO A STATE OF THE PARTY OF	of path of the RL Mar Na con	毛的人的主题。所谓是的知识的是《CREA NOTE 等各
Aroclor-1016	ND	170	
Aroclor-1221	ND	330	
Aroclor-1232	ND	170	
Aroclor-1242	9,200	170	
Aroclor-1248	ND	170	
Aroclor-1254	ND	170	
Aroclor-1260	200	170	

Surrogate Surrogate	* FREC	##Limits # War	新加州中央,中央共和国的国际等的的影响。1915年1986年	,如此是是是自己的學術學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學學
TCMX	DO	68-139		
Decachlorobiphenyl	DO	52-147		

Field ID: B84MEZZRE0115 Batch#: 147765 02/09/09 02/12/09 Type: Prepared: SAMPLE 209794-016 Lab ID: Analyzed: Cleanup Method: EPA 3665A Matrix: Miscell. Diln Fac: 20.00

Analyte:	nesultinger Resultinger	Andrew Control of Richard Control States - Hallon Control Research	STEEL TO THE THE STEEL AS A STEE
Aroclor-1016	ND	170	
Aroclor-1221	ND	330	
Aroclor-1232	ND	170	
Aroclor-1242	11,000	170	
Aroclor-1248	ND	170	
Aroclor-1254	ND	170	
Aroclor-1260	260	170	

Surrogate Surrogate	draft Schaffee	Limits ********	THE SHARE STATE OF THE SHARE STATE OF	"本作大学的对象企业、智能企业性的安全的企业的工程和各种代
TCMX	DO	68-139	-	
Decachlorobiphenyl	DO	52-147		

*= Value outside of QC limits; see narrative

DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

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Polychlorinated Biphenyls (PCBs) Lab #: Location: B84 Mezzanine Prep: Analysis: EPA 3550B Client: Remedy Engeneering EPA 8082 101204 Project#: Units: ug/Kg Sampled: 02/05/09 as réceived Basis: Received: 02/05/09

Field ID: Type: Lāb ID:

B84MEZZRE0116 SAMPLE 209794-017 Miscell.

Batch#: Prepared: Analyzed:

147765 02/09/09 02/12/09 Cleanup Method: EPA 3665A

Matrix: 20.00 Diln Fac:

Aroclor-1016	ND	170	
Aroclor-1221	ND	330	
Aroclor-1232	ND	170	
Aroclor-1242	9,300	170	
Aroclor-1248	ND	170	
Aroclor-1254	ND	170	
Aroclor-1260	ND	170	

NEAR AND SUFFORM TO THE CONTROL OF THE SECOND DISTRICT OF THE SECOND DESIGNATION OF THE SECOND D TCMX DO 68-139 52-147 Decachlorobiphenyl DO

Field ID:

B84MEZZRE0120 SAMPLE 209794-018

Batch#: Prepared: Analyzed:

147765 02/09/09 02/12/09 Cleanup Method: EPA 3665A

Type: Lab ID: Matrix: Diln Fac:

Miscell. 10.00

(Ting Manalyte)	<u> Resultation of the Resultation</u>	~~~~~ RL \$~~
Aroclor-1016	ND	83
Aroclor-1221	ND	170
Aroclor-1232	ND	83
Aroclor-1242	5,800	83
Aroclor-1248	ND	. 83
Aroclor-1254	ND	83
Aroclor-1260	200	83

Surrogate	**************************************	Limits	· 中国, 中国的"自然是国际主要的特别,但是国际,国际国际的数据的现在分词,是国际的特别的	
TCMX	DO -	68-139		
Decachlorobiphenvl	DO	52-147		

*= Value outside of QC limits; see narrative

DO= Diluted Out

ND= Not Detected RL= Reporting Limit

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	Polychlorin	ated Biphenyls (PCBs)
Lab #:	209794	Location:	B84 Mezzanine
Client:	Remedy Engeneering	Prep:	EPA 3550B
Project#:	101204	Analysis:	EPA 8082
Units:	ug/Kg	Sampled:	02/05/09
Basis:	_as received	Received:	02/05/09

147765 02/09/09 02/12/09 Field ID: B84MEZZRE0117 Batch#: Type: Lab ID: SAMPLE Prepared: 209794-019 Analyzed: Matrix: Diln Fac: Miscell. Cleanup Method: EPA 3665A 20.00

Analyte	Result	AT LEGIS OF A RL TOTAL CONTROL OF SECURIOR CONTROL OF SECURIOR WAS	- 2
Aroclor-1016	ND	170	\neg
Aroclor-1221	ND	330	
Aroclor-1232	ND	170	- 1
Aroclor-1242	12,000	170	- 1
Aroclor-1248	ND ·	170	ľ
Aroclor-1254	ND	170	
Aroclor-1260	190	170	

Surrogate Const	**************************************	A Limits Laboratory	इंड कर्राक्ष्य १५ ई. १ विज्ञ देशको ।	1.0	· 自己的人,这个一种多种的自己的的。
TCMX	DO	68-139			
Decachlorobiphenyl	DO	52-147			

Field ID: B84MEZZRE0118 Batch#: 147765 SAMPLE 209794-020 Prepared: Analyzed: 02/09/09 02/10/09 Type: Lab ID: Matrix: Miscell. Cleanup Method: EPA 3665A Diln Fac: 20.00

Analyte:	There's a grant upon up a Result control to the	are the RI ME, he distributed as	最高的现在分词是被强烈的
Aroclor-1016	ND	170	
Aroclor-1221	ND	330	
Aroclor-1232	ND	170	
Aroclor-1242	10,000	170	
Aroclor-1248	ND	170	
Aroclor-1254	ND	170	
Aroclor-1260	180	170	

Surrogate Surrogate	% &REC		(1997) · 古人 為於於於於衛門軍衛 大學所以致於
TCMX	DO	68-139	
Decachlorobiphenyl	DO	52-147	

DO= Diluted Out

ND= Not Detected RL= Reporting Limit

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^{*=} Value outside of QC limits; see narrative



Polychlorinated Biphenyls (PCBs) Lab #: Client: 209794 B84 Mezzanine Location: EPA 3550B EPA 8082 Remedy Engeneering Prep: Project#: 101204 Analysi 02/05/09 02/05/09 Sampled: Units: ug/Kg <u>as received</u> Received: Basis:

Field ID: Type: Lab ID: Matrix:

Diln Fac:

B84MEZZRE0119 SAMPLE 209794-021 Miscell. 20.00

Batch#: Prepared: Analyzed:

147765 02/09/09 02/10/09 Cleanup Method: EPA 3665A

Analyte	Result	NAMES OF TRACES OF THE PARTY OF	1459-168 W 484 Y
Aroclor-1016	ND	170	
Aroclor-1221	ND	330	
Aroclor-1232	ND	170	
Aroclor-1242	8,300	$\overline{170}$	
Aroclor-1248	ND	170	
Aroclor-1254	ND	170	
Aroclor-1260	<u>ND</u>	170	

Surrogate on tree and imits which was been and the same of the s TCMX DO 68-139 Decachlorobiphenyl 52-147 DO

Field ID: Type:

B84MEZZRE0119D SAMPLE 209794-022

Batch#: Prepared: Analyzed:

147765 02/09/09 02/10/09 Cleanup Method: EPA 3665A

Lab ID: Matrix: Diln Fac:

Miscell. 20.00

	Halley Harry with Result William	A CONTRACTOR OF THE SECTION OF THE S	CONTRACTOR STATE OF THE STATE O
Aroclor-1016	ND	170	· · ·
Aroclor-1221	ND	330	
Aroclor-1232	ND	170	
Aroclor-1242	11,000	170	
Aroclor-1248	ND	170	
Aroclor-1254	ND	170	
Aroclor-1260	210	170	

Surrogate	FREC	发 Limits 数数数数数数据,并并未够要求的。这是这个多数多个是一种形式的数数数数数数数数数数
TCMX	DO	68-139
Decachlorobiphenyl	DO	52-147

DO= Diluted Out ND= Not Detected RL= Reporting Limit

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^{*=} Value outside of QC limits; see narrative



Polychlorinated Biphenyls (PCBs) B84 Mezzanine EPA 3550B EPA 8082 Lab #: 209794 Location: Client: Remedy Engeneering Prep: Project#: 101204 Analysis: Sampled: 02/05/09 02/05/09 Units: ug/Kg Basis: as réceived Received:

Type: BLANK Batch#: 147725
Lab ID: QC482549 Prepared: 02/08/09
Matrix: Soil Analyzed: 02/08/09
Diln Fac: 1.000 Cleanup Method: EPA 3665A

Analyte	a There is a second with the Result of The A. A.	·萨尔尔·马克·马 克 斯·马克尔斯·西西斯克斯克斯斯斯克斯克斯克斯克斯克斯克斯克斯克斯克斯克斯克斯克斯克斯克斯克
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12 ·
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

TCMX 102 68-139
Decachlorobiphenyl 59 52-147

Type: BLANK Batch#: 147765
Lab ID: QC482712 Prepared: 02/09/09
Matrix: Miscell. Analyzed: 02/10/09
Diln Fac: 1.000 Cleanup Method: EPA 3665A

Analyte	a war war a see Result	
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	, N D	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	**************************************	那。Limits 该系统	· 中心 医骨髓 () · 中心 (化三氯甲基甲二甲酰 医二甲酚 医阴囊炎	AND TO THE PARTY OF THE SECOND
TCMX	73	68-139			
Decachlorobiphenyl	47 *	52 - 147			

^{*=} Value outside of QC limits; see narrative

DO= Diluted Out

ND= Not Detected

RL= Reporting Limit

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Batch QC Report

	Polychlorin	ated Biphenyls	
Lab #:	209794	Location:	B84 Mezzanine
Client:	Remedy Engeneering	Prep:	EPA 3550B
Project#:	101204	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC482553	Batch#:	147725
Matrix:	Soil	Prepared:	02/08/09
Units:	ug/Kg	Analyzed:	02/08/09
Basis:	as received		·

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	₹	Limits
Aroclor-1016	165.8	168.1	101	73-139
Aroclor-1260	165.8	164.8	99	76-143

Surrogate	% &REC	Limits
TCMX	105	68-139
Decachlorobiphenyl	56	52-147



Batch QC Report

	Polychlorin	ated Biphenyls	(PCBs)
Lab #:	209794	Location:	B84 Mezzanine
Client:	Remedy Engeneering	Prep:	EPA 3550B
Project#:	101204	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	147725
MSS Lab ID:	209766-005	Sampled:	02/03/09
Matrix:	Soil	Received:	02/05/09
Units:	ug/Kg	Prepared:	02/08/09
Basis:	as received	Analyzed:	02/09/09
Diln Fac:	1.000		

Type:

Cleanup Method: EPA 3665A

Lab ID:

MS QC482554

Analyte	MSS Result	Spiked	Result	: FRE	C Limits
Aroclor-1016	<1.543	166.5	162.3	97	66-146
Aroclor-1260	<1.835	166.5	160.3	96	52-142

Surrogate	*REC	Limits	到1964年1964年1月1日日	5.00多年,2018年1日,但在1918年1日,1918年1日
TCMX	92	68-139		·
Decachlorobiphenyl	53	52-147		i

Type:

MSD

Cleanup Method: EPA 3665A

Lab ID:

QC482555

Analyte	Spiked	Result	₹RE(Limits	RPD	Lim
Aroclor-1016	165.8	156.2	94	66-146	3	28
Aroclor-1260	165.8	156.2	94	52-142	2	28

Surrogate	* ************************************	Limits	
TCMX	88	68-139	
Decachlorobiphenyl	49 *	52-147	

^{*=} Value outside of QC limits; see narrative RPD= Relative Percent Difference Page 1 of 1



Batch QC Report

	Polychlorin	ated Biphenyls	
Lab #:	209794	Location:	B84 Mezzanine
Client:	Remedy Engeneering	Prep:	EPA 3550B
Project#:	101204	Analysis:	EPA 8082
Matrix:	Miscell.	Batch#:	147765
Units:	ug/Kg	Prepared:	02/09/09
Basis:	as received	Analyzed:	02/10/09
Diln Fac:	1.000		

Type: Lab ID: BS

QC482713

Cleanup Method: EPA 3665A

Analyte	Spiked	Result	PREC	Limits
Aroclor-1016	166.5	131.4	79	73-139
Aroclor-1260	166.5	149.9	90	76-143

Surrogate	*REC	Limits	
TCMX	81	68-139	
Decachlorobiphenyl	48 *	52-147	

Type:

BSD

Cleanup Method: EPA 3665A

Lab ID:

QC482714

Analyte	Spiked	Result	* &RE	C Limits	RPD	Lim
Aroclor-1016	166.8	135.0	81	73-139	2	20
Aroclor-1260	166.8	142.7	86	76-143	5	22

Surrogate	*REC	Limits
TCMX	80	68-139
Decachlorobiphenyl	44 *	52-147

^{*=} Value outside of QC limits; see narrative RPD= Relative Percent Difference Page 1 of 1